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THE CLEMSON AGRICULTURAL COLLEGE

OF

SOUTH CAROLINA

THIRTIETH YEAR

ANNUAL CATALOGUE
1922-23

ANNOUNCEMENTS

1923-24

Telegraph and Post Offices: Clemson College, S. C.

Freight and Express Offices: Calhoun, S. C.

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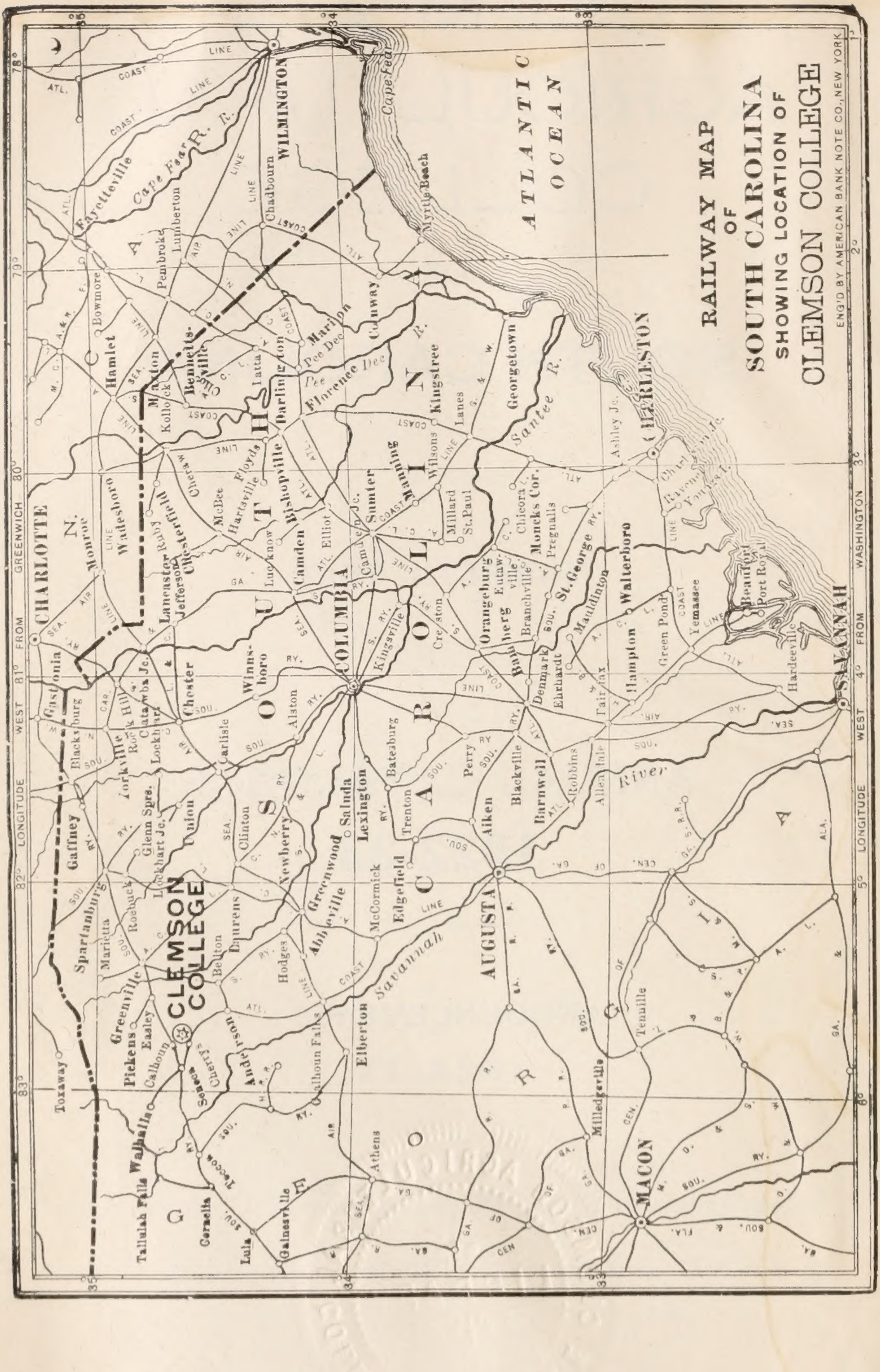
1922-25



RAILWAY MAP
OF
SOUTH CAROLINA
SHOWING LOCATION OF
CLEMSON COLLEGE

ENG'D BY AMERICAN BANK NOTE CO., NEW YORK

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1923

JANUARY

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CLEMSON COLLOGE CALENDAR

Session 1923-24.

1923 First Semester

Sept. 5—Opening of 31st session. First semester begins at 8:30 A. M.

Oct. 12—Stated meeting of Board of Trustees.

Nov. 10—First half of first semester ends.

Nov. 29—Thanksgiving Day. A holiday.

Dec. 23—First day of Christmas holidays.

1924

Jan. 3—Students return from Christmas vacation by 11:30 P. M.

Jan. 19—Lee's birthday.

Jan. 26—End of first semester.

Second Semester

Jan. 27—Second semester begins.

Feb. 22—Washington's birthday. A holiday.

Mar. 14—Stated meeting of Board of Trustees.

Mar. 18—Calhoun's birthday.

Mar. 29—First half of second semester ends.

May 7—Stated meeting of Board of Visitors.

May 24—Examinations for Senior Class end.

May 30—Closing exercises of the One Year Agricultural Course.

May 26-31—"Make-up" week for Senior Class.

June 1—Commencement exercises begin. Baccalaureathe sermon. x
Closing exercises of the Y. M. C. A.

June 2—Closing exercises of the Literary Societies. Military exercises.
Address of Alumni Orator. Alumni Meeting.

June 3—Commencement Day. Graduating Exercises.

June 9—Summer School begins.

June 13—Stated meeting of Board of Trustees.

July 11—Scholarship and entrance examinations at the county seats.

July 14—Last day for receiving scholarship applications.

July 19—Summer School ends.

Note:—The above schedule is subject to change by the Faculty.

BOARD OF TRUSTEES

Life Members

ALAN JOHNSTONE, President	Newberry, Newberry Co.
M. L. DONALDSON	Greenville, Greenville Co.
J. E. WANNAMAKER	St. Matthews, Calhoun Co.
W. W. BRADLEY	Abbeville, Abbeville Co.
R. I. MANNING	Sumter, Sumter Co.
A. F. LEVER	Peak, Lexington Co.
B. E. GEER	Greenville, Greenville Co.

Term Expires 1924

R. H. TIMMERMAN	Batesburg, Lexington Co.
H. C. TILLMAN	Greenwood, Greenwood Co.
W. D. BARNETTE	Columbia, Richland Co.

Term Expires 1926.

J. J. EVANS	Bennettsville, Marlboro Co.
I. M. MAULDIN	Pickens, Pickens Co.
R. M. COOPER	Wisacky, Lee Co.

STANDING COMMITTEES OF THE BOARD *

Executive—Donaldson, Barnette, Bradley, Evans, Mauldin.

Finance—Mauldin, Donaldson, Bradley, Manning, Timmerman.

Agriculture—(This committee is also the Veterinary Committee, the Crop Pest Commission, and the Experiment Station Board of Control.)—Wannamaker, Lever, Manning, Cooper, Tillman.

Fertilizer—Manning, Evans, Tillman, Wannamaker.

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*The President of the Board of Trustees is, ex officio, a member of all Committees.

BOARD OF VISITORS

1923

First District

Robert Lathan	Charleston

Second District

J. L. Mims	Edgefield

Third District

E. S. Blease	Newberry

Fourth District

C. O. Hearon	Spartanburg

Fifth District

William Godfrey	Cheraw

Sixth District

Olin Sawyer	Georgetown

Seventh District

Christie Benet	Columbia

ADMINISTRATIVE OFFICERS

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President

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Director of Textile Department

SAMUEL BROADUS EARLE, A. M., M. E.,
Director of Engineering Department

RICHARD NEWMAN BRACKETT, Ph. D.,
Director of Chemical Department

WILLIAM WILLIAMS LONG, M .S.,
State Agent of Farm Demonstration Work and Director of Extension Service

FRED HARVEY HALL CALHOUN, Ph. D.,
Director of Resident Teaching, Agricultural Department

HENRY WALTER BARRE, B. S., M. A.,
Director of Research, Experiment Station

MADISON PEARSON,
Major of Infantry, U. S. Army—Commandant
Director of Military Department

DAVID WISTAR DANIEL, A. M., Litt. D.,
Director of Academic Department

DAVID HILL HENRY, B. S.,
Director of Student Affairs

JAMES CORCORAN LITTLEJOHN, B. S.,
Professor—Registrar and Assistant to the President

SAMUEL WILDS EVANS,
Treasurer and Secretary of Board of Trustees

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Surgeon

KATHERINE BOCQUET TRESCOT,
Librarian

OFFICERS OF INSTRUCTION

ACADEMIC DEPARTMENT

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Director—Professor of English
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Emeritus Professor of English
* WILLIAM SHANNON MORRISON, A. B.,
Professor of History and Political Economy
SAMUEL MANER MARTIN, B. S.,
Professor of Mathematics
WILLIAM EMERA GODFREY, A. M.,
Professor of Physics
AUGUSTUS G. SHANKLIN, B. S.,
Associate Professor of Mathematics
MARK EDWARD BRADLEY, A. B.,
Associate Professor of English
ALESTER GARDEN HOLMES, B. S.,
Associate Professor of History
JOSEPH EVERETT HUNTER, B. S.,
Assistant Professor of Mathematics
BURR HARRISON JOHNSTONE, A. B.,
Assistant Professor of Mathematics
**LAWRENCE ANDREW SEASE, B. S.,
Assistant Professor of English
AUSTIN LAWRENCE HODGES, B. S.,
Assistant Professor of Physics.
LINVILLE MORAN HOLTON, M. A.,
Assistant Professor of History and Economics.
MERVIN E. OAKES, A. B.
Instructor in English
HORACE ARTHUR SHERMAN, A. B.,
Instructor in Physics
ORAL EVERETT HEDGE, B. S.,
Instructor in English
ARUTHUR SPEECE WITHERS, M. A.,
Instructor in English
ERWIN FINLEY GETTYS, B. S.,
Instructor U. S. V. B. Students.
EDWARD CARLTON DILLARD, B. S. Agr.,
Instructor U. S. V. B. Students.

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*Died Dec. 25, 1922.

**At present in charge of Academic instruction of U. S. V. B. Students.

ENGINEERING DEPARTMENT

SAMUEL BROADUS EARLE, A. M., M. E.,
Director—Professor of Mechanical Engineering

WALTER MERRITT RIGGS, B. S., E. M. E., LL. D.,
Consulting Professor of Engineering

RUDOLPH EDWARD LEE, B. S.,
Professor of Architecture and Drawing—College Architect

FRANK TOWNES DARGAN, M. S.,
Professor of Electrical Engineering

SAM R. RHODES B. S., M. S.,
Professor of Electrical Engineering

ELWYN LORENZO CLARKE, B. S.,
Professor of Civil Engineering

WILLISTON WIGHTMAN KLUGH, B. S.,
Associate Professor of Drawing and Designing

EDWARD LEROY CARPENTER, B. S.,
Associate Professor of Mechanical Engineering

WALTER OSCAR SHUBERT,
Associate Professor of Machine Shop Work

JAMES MASSIE JOHNSON.
Associate Professor of Forge and Foundry Work

JOHN LOGAN MARSHALL, B. S.,
Assistant Professor of Wood Work

JAMES JOSEPH STILL, Jr., B. S.
Assistant Professor of Civil Engineering

DAVID CHRISTOPH LANGE, B. S., M. S.
Assistant Professor of Architecture

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Instructor in Drawing

FRANK MARVIN BURR, C. E.,
Instructor in Engineering.

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Professor of Horticulture
HENRY WALTER BARRE, B. S., M. A.
Professor of Botany and Bacteriology
ALBERT FREDERICK CONRADI, B. S. A., M. S.,
Professor of Entomology and Zoology
*ROBERT ALIVER FEELEY, D. V. S.,
Profesor of Veterinary Science
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Professor of Rural Sociology
CARL P. BLACKWELL, M. S.,
Professor of Agronomy
WILL GILES CRANDALL, B. S.,
Professor of Education
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Consulting Professor of Agricultural Education
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Professor of Animal Husbandry
J. PAUL LaMASTER, B. S. A.,
Professor of Dairying
ROY AIKEN MAYS, B. S., D. V. S.,
Acting-Professor of Veterinary Science.
WILLIAM BARRE AULL, B. S.,
Associate Professor of Bacteriology
DUANE B. ROSENKRANS, A. B., M. A.,
Associate Professor of Botany
THERMAN KELLEY SISK, A. B.,
Associate Professor of Education
CHARLES LEE MORGAN, B. S. A.,
Associate Professor of Animal Husbandry
THOMAS EDISON HAGAN, B. S. A.,
Associate Professor of Horticulture
BEN E. GOODALE, B. S.,
Associate Professor of Dairying
GILBEART HOOPER COLLINGS, M. S.,
Assistant Professor of Agronomy
WILLIAM DOYLE REED, B. S.,
Assistant Professor of Entomology
LEANDER HOWELL, M. S.,
Assistant Professor of Agronomy and Soils
JOHN T. McALISTER, B. S.,
Assistant Professor of Agronomy and Farm Machinery

WILLIAM HAROLD WASHINGTON, B. S., M. S. A.,
Assistant Professor of Agricultural Education
GRAHAM E. WILSON, B. S. A., M. S. A.,
Assistant Professor of Agricultural Education
CARL G. DEUBER, M. S.,
Instructor in Botany
WILLIE THOMAS PATRICK, B. S.,
Federal Board Instructor in Agronomy
GEORGE CALVIN MARTIN, B. S.,
Federal Board Instructor in Animal Husbandry
MONROE EVANS GARDNER, B. S.,
Federal Board Instructor in Horticulture

*On leave.

CHEMICAL DEPARTMENT

RICHARD NEWMAN BRACKETT, A. B., Ph. D.,
Director—Professor of Chemistry
JOHN HARRIS MITCHELL, M. S.,
Professor of Chemistry
WILLIAM LEROY LIPPINCOTT, B Chem.,
Professor of Chemistry
FRANK HOWELL POLLARD, B. Chem., Ph. D.,
Assistant Professor of Chemistry
FREDERICK PHILIPS BROOKS, B. S., M. S.,
Assistant Professor of Chemistry

TEXTILE DEPARTMENT

CHARLES STEBBINS DOGGETT,
Director—Professor of Textile Chemistry and Dyeing
CLAUDE WIGHTMAN McSWAIN, B. S.,
Professor of Weaving and Designing
HAROLD BENNETT ADAMS,
Professor of Industrial Education
State Supervisor of Industrial Education
HAROLD WINSHIP HORTON,
Associate Professor of Carding and Spinning
ROBERT JOSEPH CHEATHAM, B. S.,
Assistant Professor of Textile Industry
WINFRED PAGE ENLOE,
Instructor in Textiles for U. S. V. B. Students.

MILITARY DEPARTMENT

COLONEL MADISON PEARSON, (Major, U. S. A.)
Director—Professor of Military Science and Tactics
Commandant of Cadets

CAPTAIN HENRY W. LEE (U. S. A.)
Assistant Professor of Military Science and Tactics
Associate Commandant

CAPTAIN ALFRED G. BRADEN, (U. S. A.)
Assistant Professor of Military Science and Tactics

CAPTAIN THOMAS E. RODERICK (U. S. A)
Assistant Professor of Military Science and Tactics

CAPTAIN THOMAS E. MAY, (U. S. A)
Assistant Professor of Military Science and Tactics

CAPTAIN LOYD VAN HORNE DURFEE, (U. S. A.)
Assistant Professor of Military Science and Tactics

LIEUTENANT LAWRENCE L. COBB,
Assistant Professor of Military Science and Tactics

LIEUTENANT HAROLD R. EMERY, (U. S. A.)
Assistant Professor of Military Science and Tactics

CAPTAIN JOHN E. OBERG, (Sergeant 1st Class, Medical Corps, U. S. Army, Retired),
Quartermaster—Assistant to the Commandant

STAFF SERGEANT CHARLES W. CRIPPS, (D. E. M. L.)
Instructor in Military Science and Tactics

SEGEANT JOSEPH POLOWE, (D. E. M. L.)
Instructor in Military Science and Tactics.

SERGEANT FRANK S. SINGER, (D. E. M. L.)
Instructor in Military Science and Tactics

MISCELLANEOUS OFFICERS

MARGARET L. SADLER,
Secretary to the President
JEAN B. SLOAN,
Assistant to the Registrar
BEULAH FERGUSON,
Stenographer to the Registrar
CLEO DENNY,
Stenographer—Engineering Department
LOUISE POPE,
Clerk—Commandant's Office
RUTH SMITH,
Stenographer—Agricultural Department
EDWARD BERNARD ELMORE,
Bookkeeper
B. B. BURLEY,
Assistant Bookkeeper
JAMES DOUGLAS HARCOMBE,
Mess Officer
EDWARD J. STUART
"Director of Athletics." Head Coach
FREED V. HAMILTON,
Assistant Coach
CORNELIA AYERS GRAHAM
Assistant Librarian
MRS. M. E. MIDDLETON,
Matron in Mess Hall
JAMES PERCIVAL LEWIS,
Superintendent of Roads
JOSEPH HEWER,
Superintendent of Construction and Repair

RELIGIOUS OFFICERS

Y. M. C. A. Secretaries

PRESTON BROOKS HOLTZENDORFF, JR.,
General Secretary, Y. M. C. A.
HUGH EGGER ROBINSON,
Assistant Secretary, Y. M. C. A.

College Pastors

REV. JOHN KEESEE GOODE, A. B.	Baptist
REV. GEORGE E. ZACHARY	Episcopal
*REV. WATSON EMMETT DAVIS, A. B., B. D.	Presbyterian
REV. JOHN DAVID HOLLER A. B.	Methodist

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*Resigned

COMMENCEMENT SPEAKERS—JUNE, 1922.

Baccalaureate Sermon

Dr. Henry D. Phillips .... Columbia, S. C.

Commencement Address

Hon. Josephus Daniels .... Raleigh, N. C.

FERTILIZER ANALYSIS AND INSPECTION

RICHARD NEWMAN BRACKETT, A. B., Ph. D.,
Chief Chemist
HUGH MILTON STACKHOUSE,
Secretary Board of Fertilizer Control
BENJAMIN F. ROBERTSON, B. S.,
Chemist (Fertilizer Analysis)
JOHN TREUTLEN FOY, B. S.,
Assistant Chemist (Fertilizer Analysis)
BENJAMIN FREEMAN, B. S.,
Assistant Chemist (Miscellaneous Analysis)
MARGARET E. GASQUE,
Clerk to the Board of Fertilizer Control

STANDING COMMITTEES OF THE FACULTY*

Discipline—Earle, Brakett, Calhoun, Daniel, Doggett, Martin, ———.

Re-examination and Promotions—Martin, Brackett, Calhoun, Daniel, Dargan, Doggett, Earle, Littlejohn.

Entrance Requirements—Daniel, Calhoun, Holmes, Littlejohn, Martin.

Schedule—Lee, Aull, Durfee, Henry, Holmes, Littlejohn, Martin, McSwain, Mitchell, Rhodes.

Student Petitions—Littlejohn, Blackwell, Pearson, Henry, Martin, McSwain, Rhodes.

Atnletic—Henry, Calhoun, Shanklin, Mitchell, ——————.

Library—Bryan, Calhoun, Dargan, Henry, Bradley, Doggett.

Irregular Students—Hunter, Aull, Bradley, Klugh, Mitchell.

Catalogue—Littlejohn, Lee, McSwain, Mitchell, Oakes, Rosenkrans.

Religious Services—Earle, Bradley, Holmes, Sisk.

Chapel Entertainments—Daniel, Johnstone, Martin, Henry.

State Fair—McSwain, Collings, Harris, Lippincott, Marshall.

Text-book—Shanklin, Cheatham, Collings, Harris, Mitchell.

Summer School—Calhoun, Daniel, Doggett, Horton, Henry Crandall, Klugh, Littlejohn, Watkins.

Rules—Calhoun, Henry, Klugh, Littlejohn, Shanklin.

Education Disabled Soldiers—Calhoun, Daniel, Doggett, Littlejohn, McHugh, Sease.

Campus—Newman.

Chapel Music—Carpenter.

* The President is, ex officio, a member of all committees. The first named in each instance is chairman.

Historical Sketch of Clemson College

Thomas G. Clemson, after whom the College is named, was born in Philadelphia in July, 1807. and died at the Fort Hill home April 6, 1888.

In 1823, then scarcely 16 years old, he ran away from home, and, after spending some time in England, went to Paris, where he took up arms in the revolution of that time. His gallantry brought him recognition and the friendship of prominent men, resulting in his being given a course in the celebrated School of Mines in Paris. In this school he remained four years, graduating with high honors.

While he was in Europe, his father died, leaving nothing to him in his will. Soon after this he returned to America, and establishing himself in Washington, practiced his profession of Mining Engineer, and accumulated a comfortable fortune. It was here that he met Miss Anna Marie, the eldest daughter of John C. Calhoun, and married her. Two children resulted from this union—a daughter, Floride, who afterwards became Mrs. Gideon Lee, of New York, and a son, John Calhoun Clemson.

Mr. Clemson was a strong advocate of the political doctrine of Mr. Calhoun, and when the war broke out, fearing arrest, he and his son escaped by night in a boat, and walking to Richmond, offered their services to President Davis. Mr. Clemson was assigned to the Trans-Mississippi Nitre Mining Department, where he served until the end of the war. His son was appointed a Lieutenant and assigned to active duty.

At the end of the war, Mr. Clemson with his family came to Pendleton and resided with Mrs. John C. Calhoun until her death in 1866.

Mr. Clemson was interested as far back as this date in the establishment of an Agricultural and Industrial College. In November 1866, a Committee was appointed, consisting of Hon. Thomas G. Clemson, Hon. R. F. Simpson and Col. W. A. Hayne, to appeal to their fellow men for

> "Aid to found an institution for educating our people in the Sciences, to the end that our Agriculture may be improved, our worn and impoverished soils be recuperated, the great natural resources of the South be developed."

In January 1867, at a meeting of the Pendleton Farmers' Society, Mr. Clemson addressed the body in "an able and most interesting and instructional discourse," and submitted in the form of a circular the appeal above referred to. The circular was written by Mr. W. H. Trescot, and closes with the words:

"Letters and contributions to be directed to the Hon. Thos. G. Clemson, LL.D. Chairman of the Committee, Pendleton, Anderson District, South Carolina."

Again in the minutes of the same society, of which he was elected President in 1868, under date of Oct. 14, 1869, we find the following:

> "The President (Mr. Clemson) [illegible] society for [illegible] an [illegible] on the subject of scientific agriculture and the importance of [illegible] education."

These extracts indicate [illegible] on the part of Mr. Clemson in the great [illegible].

Previous to the war, Mrs. John C. Calhoun had sold the Fort Hill place and negroes to her son, Col. Andrew P. Calhoun, taking in payment his bond and mortgage for $40,200.00. At her death, she left a will, devising to her daughter, Mrs. Clemson, three-fourths of the value of this bond and mortgage, and to her granddaughter, who at the time of Mrs. Calhoun's death was Mrs. Gideon Lee of New York, the remaining one-fourth of the bond and mortgage.

Shortly after Mrs. Calhoun's death, Mrs. Thomas G. Clemson, after considerable costly litigation foreclosed the mortgage on the Fort Hill place, and at the sale of the property in Walhalla in January 1872, Mr. Clemson, as Trustee for his wife and daughter, bid it in for $15,000,* and he himself paid out of his private funds about $8,000 to cover lawyer's fees, court cost, etc.

In 1871, Mr. Clemson's daughter, then Mrs. Gideon Lee, died, and seventeen days later, his only son, John Calhoun Clemson, was killed in a railroad accident at Seneca. Left childless, Mrs. Clemson willed to her husband, Thomas G. Clemson, all of her estate, "absolutely and in fee simple."†

Mr. Clemson, in his will, left to his granddaughter, Floride Isabella Lee, $15,000 to free the property, which by the same will was donated to the State, from any claim in equity that the granddaughter might have. This was, of course, in addition to one-fourth of the estate which descended to Miss Lee from her mother.

Neither by devolution, nor by donation, nor by any form of hereditary transmission does it anywhere appear that John C. Calhoun had anything to do with the founding of the College which bears Clemson's name.

In 1875 Mrs. Clemson died, and on April 6, 1888, Mr. Clemson followed her to the grave, and was buried in the Episcopal church yard at Pendleton.

Mr. Clemson's will was bitterly contested by the Lee family, but was finally fully sustained by the U. S. Supreme Court. After the settlement of the will, the Trustees of the College bought from Miss Floride Isabella Lee her one-fourth of the estate which adjoined the tract given to the State by Mr. Clemson.

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* See Title Book, Oconee County, P. 177-f.

† See Judge of Probate's Office, Oconee County, Apartment 26, Package 287.

The following extracts are made from Mr. Clemson's will[‡] in order to show clearly his purpose in offering his property to the State for the founding of the Clemson Agricultural College.

* * * * "Feeling a great sympathy for the farmers of this State, and the difficulties with which they have to contend in their efforts to establish the business of agriculture upon a proper basis, and believing that there can be no permanent improvement in agriculture without a knowledge of those sciences which pertain particularly thereto, I have determined to devote the bulk of my property to the establishment of an Agricultural College upon the Fort Hill Place. My purpose is to establish an Agricultural College which will afford useful information to the farmers and mechanics; therefore it should afford thorough instruction in agriculture and the natural sciences connected therewith; it should combine, if practicable, physical with intellectual education, and should be a high seminary of learning in which the graduate of the common schools can commence, pursue and finish a course of studies terminating in thorough theoretic and practical instruction in those sciences and arts which bear directly upon agriculture. But I desire to state plainly, that I wish the Trustees of said institution to have full authority and power to regulate all matters pertaining to said institution, * * * * but to always bear in mind that the benefits herein sought to be bestowed are intended to benefit agriculture and mechanical industries. * * * I trust I do not exaggerate the importance of such an institution for developing the material resources of the State, by affording its youth the advantages of scientific culture, and that I do not over-rate the intelligence of the Legislature of South Carolina, ever distinguished for liberality, in assuming that such appropriations will be made as will be necessary to supplement the fund resulting from the bequest herein made."

"I therefore give * * * * the aforesaid Fort Hill place where I now reside, formerly the house of my father-in-law, John C. Calhoun, consisting of eight hundred and fourteen acres, more or less, in trust that whenever the State of South Carolina may accept said property as a donation from me, for the purpose of thereupon founding an Agricultural College, in accordance with the views I have hereinbefore expressed, (of which the chief justice of South Carolina shall be the Judge,) then my executor shall execute a deed of the said property to said State and turn over to the same all property hereinafter given as an endowment of said institution, to be held as such by the said State so long as it in good faith devotes said property to the purpose of the donation." * * * *

"The following named gentlemen, seven in number, shall be seven of the Board of Trustees, to-wit: R. W. Simpson, D. K. Norris, M. L. Donaldson, R. E. Bowen, B. R. Tillman, J. E. Wannamaker, and J. E. Bradley; and the State, if it accepts the donation, shall never increase the Board of Trustees to a number greater than thirteen in all, nor shall the duties of the said Board be taken away or conferred upon any other men or body of men. The seven Trustees appointed by me, shall always have the right, and the power is hereby given them and their successors, which right the Legislature shall never take away or abridge, to fill all vacancies which may occur in their number by death, resignation, refusal to act, or otherwise. But the Legislature may provide as it sees proper for the appointment or election of the other six Trustees, if it accepts the donation. * * * The name of this Institution is to be "The Clemson Agricultural College of South Carolina."

[‡] See Judge of Probate's Office, Oconee County, Apartment 64, Package 671.

In the codicil to his will, Item 12, occurs the following significant statement:

"The desire to establish such a school or college as I have provided for in my said last will and testament, has existed with me for many years past, and many years ago I determined to devote the bulk of my property to the establishment of an Agricultural School or College. To accomplish this purpose is now the one great desire of my life."

In November 1889, the General Assembly of South Carolina passed the necessary acts authorizing the acceptance of the terms of Mr. Clemson's will, and the establishment of the College. The following extracts are taken from the State laws relating to the College:

Section 1300: "The Honorable Thomas G. Clemson having departed this life on the sixth day of April, A. D. 1888, leaving of force his last will and testament * * * * wherein he devised and bequeathed the Fort Hill plantation, as well as all his other property, both real and personal, except certain legacies in the said will mentioned and provided for, all in trust to convey to the State of South Carolina when the said State shall accept the same for the purpose of establishing and maintaining an Agricultural and Mechanical College upon the aforesaid Fort Hill plantation upon the terms and conditions of said will, **the State of South Carolina hereby expressly declares that it accepts the devise and bequest of Thomas G. Clemson, subject to the terms and conditions set forth in his last will and testament."** * * * *

"Section 1302: The said College shall be under the management and control of a Board of Thirteen Trustees composed of the seven members nominated by said will and their successors and six members to be elected by the Legislature in Joint Assembly."

Section 1304: That it shall require a two-thirds vote of said Board of Trustees to authorize the expenditure of any moneys appropriated to said College by the State, or to authorize the sale or transfer or re-investment of any property or moneys arising from the sale of any property under the provisions of this Act."

"Section 1319: All the privilege tax on fertilizers heretofore required to be paid to the Commissioner of Agriculture shall in the future be paid to the Treasurer of the State, subject to the order of the Board of Trustees of the Clemson Agricultural College of South Carolina; and so much of the money so received as shall be necessary to defray the expenses of the Board in performing the duties now by this Act devolved upon them shall be thus used, and the balance shall go to the said College, for its erection and maintenance."

It will be seen from the above extracts that the State accepted in good faith the terms of Mr. Clemson's will, features of which were the maintenance of the College, the recognition of the self-perpetuating life membership appointed by Mr. Clemson, and the naming of the College after Mr. Clemson.

In his will Mr. Clemson provides that there should be seven life trustees and that six might be selected by the State. It would seem appropriate to mention that in the appointment of the seven life trustees, Mr. Clemson had two purposes in mind. The State had only recently escaped from negro domination, and during a period of that [illegible] the University and of the Citadel had been closed [illegible]

At the time of the Act of Acceptance, however, these dangers were overpassed and the Legislature passed the rule that a two-thirds vote of the entire Board of Trustees would be necessary to expend any moneys appropriated to the said college by the State.

This is a historical sketch, not an argument. Whether it were wise to create a separate agricultural and mechanical college located in one corner of the state is now very largely an academic question—likewise it may be a question with some whether the State should have accepted the bequest under the terms of Mr. Clemson's will. In the face of an accomplished fact, logic and lamentation are alike impotent. South Carolinians are more interested in knowing not what might have been done, but what has actually been accomplished. Clemson College itself is the answer to that question.

HISTORY OF THE COLLEGE

The College was opened in July 1893, with an enrollment of 446 students. The session extended from the third Thursday in February to the third Thursday in December, with the idea of giving all students in Agriculture an opportunity to be instructed in the practical phases of that subject during the crop-growing season.

On the night of May 22, 1894, the main College building was burned, but the regular work continued, and the building was promptly re-built.

The first graduating exercises were held in December 1896; the graduating class numbering thirty-seven, fifteen in the Agricultural Courses, and twenty-one in the Engineering Courses. In the fall of 1897, the session was changed to begin the second Wednesday in September and close the second Wednesday in June, as it had been found inadvisable to operate the College through the hot summer months. The exercises of the second commencement which would normally have occurred in December 1897, were held February 6 to 9, 1898. The under-graduate classes were continued until June. It will be observed that, owing to the change from winter to summer vacation, there was no class graduated in 1897.

Since 1898 the annual commencement exercises have been held regularly in June but the closing day was afterwards changed to the first Tuesday, instead of second Wednesday, and in the session of 1910-11 to the second Tuesday.

Enrollment and Graduates by Courses

Session	Enrollment Regular Courses	Enrollment Short Courses	Total Enrollment	Agriculture	Mech. & Elec. Eng.	Electrical Engin'ing	Mechanical Engin'ing	Civil Engineering	Architecture	Chemistry	Chemical Engin'ing	Textile Industry	Total Graduates
1893—1918	15,598	310	15,938	662	462	....	......	160	11	25*	......	138	1,458
1918—1919	825	132	957	62	15	.... ..	....	6	4	5	.. ..	7	99
1919—1920	886	128	1,014	80	37		...	9	3	7	..	5	141
1920—1921	847	234	1,081	56	..	21	18	10	2	6	..	11	124
1921—1922	1,007	301	1,308	49	.. .	20	16	19	3	8	....	17	132
1922—1923	1,008	478	1,486	52	.... .	25	20	12	2	1	4	15	131
TOTALS	20,171	1,613	21,784	961	514	66	54	216	25	52*	4	193	2,085

* These figures include 13 graduates in Chemistry and Geology. ...

By an act of the State Legislature in the session of 1904, and amended in the session of 1907, 165 beneficiary scholarships were established, of the value of $100 per annum each, and free tuition apportioned among the counties as are the members of the Senate and House of Representatives. The number has since been increased to 170, by the creation of five new counties.

ORGANIZATION OF THE COLLEGE

By Departments and Divisions

1. Agricultural Department { Teaching / Research / Extension

Agronomy
Geology and Mineralogy
Horticulture
Veterinary Science
Zoology and Entomology
Dairying
Animal Husbandry
Botany and Bacteriology
Rural Sociology
Education.

2. **Engineering Department**
   - Mechanical Engineering
   - Electrical Engineering
   - Civil Engineering
   - Architecture and Drawing
   - Forge and Foundry
   - Machine Shop
   - Wood Shop

3. **Chemical Department**
   - Chemistry
   - Chemical Analysis (Public State Work)

4. **Textile Department**
   - Textile Chemistry and Dyeing
   - Weaving and Designing
   - Industrial Education
   - Carding and Spinning

5. **Academic Department**
   - English
   - History and Political Economy
   - Mathematics
   - Physics

6. **Military Department**
   - Military Instruction
   - Military Discipline

7. **Student Affairs**
   - Cadet Funds
   - Student Affairs

8. **Miscellaneous**
   - President's Office
   - Treasurer's Office
   - Library
   - Roads and Campus
   - Heat, Light, and Water
   - Construction and Repair
   - Museum

ORGANIZATION AND GOVERNMENT

Board of Trustees. The government of the college is vested in a Board of thirteen members, six of whom are elected by the Legislature and seven life and self perpetuating under the Clemson will. The function of this Board is legislative and not executive. The Board determines the general policy of the college, makes the laws for its government, and directs the expenditure of its funds.

The President is the chief executive and administrative officer of the Board of Trustees. He is the head of the college and is responsible for its satisfactory working and success.

The College is diveded into seven departments, namely, Agricultural, Engineering, Chemical, Academic, Textile, Military, and Student Affairs. A Director is at the head of each department and is responsible to the President for its conduct and success. The departments comprising the various divisions indicated on the preceding page. Each division is in charge of a professor who acts as chief of the division. The President conducts all official business with each department through its Director.

The Faculty consists of all officers of instruction in the college. The voting members are the Directors, Professors, Associate Professors, and Assistant Professors.

The faculty shall meet at least once a month, or whenever called by the President, and shall be an advisory body to the President, on the instructional work of the college and on such other business as he may bring before it. The faculty also meets once each month to discuss college problems.

The Discipline Committee shall consist of the Directors of the Agricultural, Academic, Engineering, Chemical, and Textile Departments and five Professors nominated by the President and approved by the Board at the annual July meeting.

This committee shall try such disciplinary cases as are referred to it by the President and shall be empowered to award such punishments for serious offenses as in their judgement are merited.

Faculty Committees. In order to aid him in his executive duties and to carry on the instructional work of the college, the President appoints committees from the Faculty. To these are assigned certain specified lines of work and the committees are clothed with full authority.

Student Activities. The students are allowed wide latitude in carrying on the affairs which concern themselves, such as athletic, literary, musical and social organizations. The aim of the Faculty is to assist in every possible way in making these interests helpful to the student body as a whole. It is the policy of the college to allow a reasonable amount of time for recreation. The Director of Student Affairs shall supervise student activities.

MILITARY ORGANIZATION AND GOVERNMENT

The following extracts from Cadet Regulations and General Orders are published for the information of parents, guardians, students and prospective students:

The President.—The President of the College shall have the general command and government of the Institution, watching over its administration, discipline and instruction. He shall have authority to make rules, from time to time, governing the granting of permits and furloughs to cadets; to inspect anything in a cadet's room or personal baggage. To suspend or modify these regulations or to publish special regulations when he considers it necessary, which shall have the authority of the Board of Trustees until they shall act on the same. He shall prescribe the hours of study, drill and recreation.

Commandant.—The Commandant of Cadets, under the President, shall have the immediate command and control of the Corps of Cadets in all that pertains to its organization, drill, military police, discipline and administration. He shall prescribe the order in which the furniture, bedding, books, clothing, equipment, etc., shall be arranged throughout the barracks and shall make a thorough inspection of the rooms, furniture, arms, equipment and uniforms of the cadets at least once each week. He shall have the right to inspect anything in a cadet's room or personal baggage. He shall perform such other duties as are prescribed in these regulations. He shall have the rank of Colonel.

Assistant Commandants.—The Assistant Commandants shall perform such duties as may be prescribed for them by the President or Commandant. They shall have the rank of Lieutenant Colonel.

Military Instruction.—All students, excepting Post Graduates, must take a minimum of three hours military instruction per week. All who pass the required physical examination must take the Basic Course prescribed by the War Department for the R. O. T. C. during their Freshman and Sophomore year.

Members of the Junior and Senior classes selected by the Professor of Military Science and Tactics, subject to the approval of the President, to take the Advanced Course prescribed for the R. O. T. C., and who sign the following agreement required by law, will be entitled to commutation of subsistence at the rate fixed by the Secretary of War during the remainder of their course at College, unless discharged from the R. O. T. C. for lack of interest or inability to keep up their military work:

> "In consideration of Commutation of Subsistence to be furnished me in accordance with law, I hereby agree to continue in the Reserve Officer's Training Corps during the remainder of my course in Clemson Agricultural College, to devote five hours per week during such period to the military training prescribed, and to pursue the course of camp training during such periods prescribed by the Secretary of War."

Commutation of Subsistence is paid during the vacation between the Junior and Senior years, except for the period of camp training, when subsistence is furnished by the government.

The organization of the Corps of Cadets shall be such as the Professor of Military Science and Tactics may prescribe.

On the graduation of every class the names of all members who have shown special aptitude for military work are sent to the War Department and to the Adjustant General of the State for their records.

Cadet Officers And Non-commissioned Officers—The Cadet Officers and Non-commissioned Officers shall be appointed by the Commandant, subject to the approval of the President. When practicable they shall be appointed from members of the R. O. T. C. who have been most studious and soldier-like in the performance of their duties and most exemplary in their conduct. No cadet may decline any office to which he may be appointed.

As a rule the Officers shall be appointed from the Senior class, the Non-commissioned Officers except Corporals from the Junior class, and the Corporals from the Sophomore class.

The Field and Staff Officers shall consist of a Colonel, a Lieut. Colonel, a Major for each Battalion, and such Staff officers of suitable rank as may be recommended by the Commandant, as being necessary and as may be approved by the President.

The Line Officers for each company will consist of a Captain, a 1st Lieutenant, and such second Lieutenants as may be appointed thereto by the Commandant with the approval of the President.

The Non-commissioned Staff shall consist of a Regimental Sergeant Major, a Regimental Supply Sergeant, a Battalion Sergeant Major for each Battalion, a Sergeant Bugler and two Color Sergeants.

The Company Non-commissioned Officers shall consist of a 1st Sergeant, four Sergeants and six Corporals for each company, and a Drum Major, two Sergeants and two Corporals for the Band.

Study Hours.—Study hours are those parts of the day when cadets are required to study and shall be as follows:

Daily except Saturday and Sunday from 7:30 p. m. to 10:30 p. m.

Chapel and Church.—Students shall be required to attend Chapel Services every morning, except on Saturday and Sunday, and Divine Services on Sunday morning under rules prescribed by the President of the College.

Attendance at chapel exercises is compulsory for all cadets not actually on duty or sick.

All cadets not on duty or sick, excepting Catholics and Jews, are required to attend church services on Sunday morning. Members of these two denominations shall remain at the guard room while the cadet corps is absent at church.

Attendance at Class.—All cadets shall attend their regular recitations, and no cadet shall leave his class room without permission of his instructor, or go to his quarters during the attendance of his class or section at the place of instruction, unless compelled to do so by sickness, in which case he shall immediately report to the Officer of the Day.

Any cadet permitted to leave class room, place of instruction or other duty. shall return as soon as possible. The time of his absence shall be reported by the instructor. and an explanation be rendered by the cadet.

Furloughs and Passes—Any cadet who has been granted a furlough or pass and who stays over the time stipulated. unless for sickness or other good and valid reasons acceptable to the Commandant, will lose his place in the college, and will be required to file a new application for admission, and pay a fee of $5.00 before being allowed to rematriculate. In case he has been sick. a certificate from the attending physician must be submitted, and no such certificates will be accepted unless the President or Commandant has been notified in advance of the date the cadet is due to return.

The Commandant may, at his discretion, in lieu of rematriculation and payment of fee, punish the cadet by arrest, extras. etc., according to the nature of his offense, the punishment not to exceed one month's arrest, 20 demerits and 20 extras. All cadets returning late on furlough or pass shall be placed in room arrest pending an investigation of the reason for their late return.

All communications from parents requesting furloughs for their sons must be addressed or sent directly to " The Commandant" or to "The President,." and must set forth fully the reason for the request. No furloughs will be granted unless the reasons given are considered satisfactory and sufficient justification for any loss of time for absence from classes or other duties. Telegrams which do not explain fully will not be accepted as complying with the above rules. In any case in which business is given as a reason. the nature of the business must be explained fully.

A parent has the right to demand a discharge from college but the college authorities reserve the right to grant or refuse to grant furloughs.

Week End Leaves.—For the Session 1922-1923 week-end leaves of absence will be granted to all Cadets on the Eligible List who apply for such leave before 9 A. M. on Saturday on the approved forms, copies of which will be on hand in each company.

The leave will extend from after scheduled classes on Saturday until 10:30 P. M. on Sunday. Changes in schedule made by professors will not be considered. The official schedule alone will govern.

A cadet will not be eligible for a week-end leave:

a. Who has a grade below "P" in any subject, theoretical or practical, or any work to make up.

b. Who has more than two demerits per week charged against him during the current semester. That is; more than two demerits during the first week; four at the end of the second week; six at the end of the third week; and so on. The term "week" applies to the weekly demerit record published by the Commandant about Wednesday of each week and includes reports from Monday of one week to and including the following Sunday.

c. Who has thirty-one or more demerits during the preceding semester.

d. Who has punishment tours scheduled to be served. Cadets may apply for leave to take effect after the punishment tours have been served.

e. Whose parent or guardian has requested that he be not granted a week-end leave.

f. Who has returned late without acceptable excuse from a previous leave.

g. Who has conducted himself in a manner unbecoming a cadet when on a previous leave.

Disobedience.—Any cadet who shall disobey a command of the President, the Commandant or his officers, or a member of the faculty, or shall behave himself in a refractory or disrespectful manner shall be tried by the Discipline Committee and dismissed or less severely punished, according to the nature and degree of his offense.

Hazing.—Hazing is positively forbidden. Any cadet indulging in hazing in any form whatever shall be tried by the Discipline Committee and dismissed from college.

Failure to Pay Dues.—The President may require a cadet to withdraw from college if after due and reasonable notice his dues to the college are not paid.

Demerits.—Demerits shall be awarded for every unremoved report, the number depending on the nature and degree of the offense but not more than ten (10) demerits shall be given by the Commandant for any offense, except as otherwise provided for in these regulations.

Any cadet who receives no demerits for the period of thirty (30) consecutive days during the current term shall be given a credit of eight (8) demerits to be applied in removing any demerits that may have been or shall be charged to him during the current term.

Any cadet shall be allowed two weeks after the end of a semester in which to apply to the Commandant or President for a reconsideration of reports for which he was given demerits during the next preceding semester. After that period the cadet's demerit record shall become a permanent record and not be subject to further appeal. Demerits for reports not explained at the proper time are not subject to the review provided for above.

Demerits incurred by a cadet for violation of the regulations shall be considered in his class standing and a cadet shall be considered as failing in one credit hour if he receives more than 60 demerits during any semester.

Laundry.—The hours and places for the collection of laundry will be prescribed by the Commandant in general orders and all cadets shall prepare their clothes for the Laundry according to the prescribed schedule.

Each cadet shall provide himself with two laundry bags in which to keep his soiled clothing in his room, and send it to the laundry.

Whenever a cadet sends soiled clothing to the laundry a list thereof shall be inclosed in the bag and a duplicate retained by the cadet.

The Laundry will not be liable for lost or damaged articles unless claim is made within two days after it was due to be returned and then for not more than the depreciated value of the articles lost.

Bathing.—All cadets shall be required to bathe at least twice each week. The finger nails shall be kept trimmed and clean, the face cleanly shaved and hair cut short and neatly trimmed. Beards and mustaches are prohibited.

Discharge.—No cadet unless 21 years of age and paying his own way at college shall be discharged except on the written application of his parents or guardian, or for other reasons satisfactory to the President.

Text Books.—Each student will be required to own his own text books and necessary equipment, except in the case of brothers in the same class who occupy the same room.

All cadets shall submit their text books and other equipment for inspection at such times as are ordered.

Day Cadets.—All cadets shall live in the barracks, except those who live with their parents or relatives near enough to attend from their homes. Those so living at home shall be known as "Day Cadets." All will be required to live in the baracks at least six months of the freshman or sophomore year as may be directed by the President. No cadet will be given a Bachelor's Degree unless he shall have lived at least two-thirds of one session in barracks. Day cadets are subject to the Cadet Regulations.

Motor Vehicicles.—No cadet or day cadet shall own or operate as his own any automobile or motorcycle during the regular session of the college.

ADMISSION TO COLLEGE

Requirements For Admission to Four-Year Courses

I.—General Requirements.—All applicants must be at least sixteen years of age at the time of entrance and must be free from contagious or infectious disease. A certificate of good moral character and honorable discharge from the last school attended is also required.

II.—Scholastic Requirements.—For unconditional admission to the freshman class the applicant must present fifteen units from an accredited high school, of which three units must be in English, two and one-half in mathematics, and two in history. The remaining [illegible] units may be selected from [illegible] subjects.

[illegible] with less than fifteen units are advised to attend an approved summer school prior to entrance. Such additional work will not be counted toward a degree but only for completion of entrance credits.

An applicant who has not completed the course of study in high school will be required to stand entrance examinations.

III.—How to Make Application.—Those desiring to enter should write the Registrar, Clemson College, S. C., for the prescribed application blank. On this blank should be given a list of the subjects studied in school, the time devoted to each, and the quality of the work. The application should be returned to the college by August 15, and sooner if possible.

IV.—Methods of Admission. An applicant may be admitted: (a) by certificate of graduation from high school; (b) by examination; (c) by individual approval for adult students; or by a combination of these methods.

(a) A certificate of graduation from high school signed by the proper official will admit an applicant to the freshman class without examination, provided the certificate entitles the holder to the number of units required for admission. In the event the number of unites is less than required number, the deficiency must be made up by examination. No credit will be given on crtificate for work done in high school unless the applicant is a graduate of the school.

(b) Applicants who are not graduates of secondary schools or applicants who are unable to enter on certificate will be required to take entrance examinations. Any or all scholarship requirements may be met by examination. Candidates having examinations to stand are advised to take those examinations held by each county superintendent of education on the second Friday in July. These examinations are for the award of scholarships and for credit toward entrance. If by these examinations the candidate finds himself unprepared he will be saved the expense of a trip to the college in September. Entrance examinations are also held at the opening of college in September.

Schedule of Entrance Examinations

Hour	Thursday, Sept. 6	Friday, Sept. 7
9—11 A. M.	English Grammar	History
11 A. M.—1 P. M.	Composition and Literature	History
2—5 P. M.	Algebra	Plane Geometry

Examinations in other subjects will be arranged.

V—Admission of Mature Students.—An applicant over twenty year of age may be admitted to the freshman class without fulfilling the entrance requirements, provided he gives evidence of seriousness of purpose and of sufficient preparation to pursue the course with profit. Such a student must satisfy all requirements before graduation.

High School Subjects Accepted for Admission to the Freshman Class

Group A—Required

English	3
Algrebra	1.5
Geometry, Plane	1
History	2
Total	7.5

Group B—Elective

ENGLISH—	1
MATHEMATICS—	
Algebra	½ or 1
Solid Geometry	½
Advanced Arithmetic	½
HISTORY—	
Ancient History	1
M. and M. History	1
U. S. History and Civics	1
English History	1
FOREIGN LANGUAGE—	
Latin	1 to 4
French, Spanish, or German	1 to 2

SCIENCE—	
Biology	1
Chemistry	1
Physics	1
General Science	1
Physiography	1
VOCATIONAL—	
Agriculture	1 to 4
Com. Geography	1
Com. Arithmetic	1
Bookkeeping	1
Stenography	1
Manual Training	1 to 2
Drawing	1 to 2

Admission to Advanced Standing—Work that has been taken in other colleges will be credited for an equivalent amount of work so far as it applies to any course offered in the college. The applicant must present: (a) a letter of honorable dismissal from the institution last attended, and (b) an official transcript of his record, including entrance credits. College credits given by transfer are provisional and may be canceled at any time if the student's work is unsatisfactory. A student coming from another institution must spend at least one regular session in the college before he is eligible to apply for a degree. College credit may be given a graduate of an accredited secondary school by examination only.

Special Students—Persons in good standing and over twenty-one years of age who desire to avail themselves of special privileges offered by the college may be admitted as special students. To such persons the opportunity is given, under the advice and with the consent of the director of the department concerned, to pursue special lines of study or investigation in any of the subjects taught in the college, provided the work can be scheduled. Special students are not permitted to live in the barracks, but are subject to general regulations of the college requiring regular attendance, good conduct and diligent prosecution of the studies selected. Degrees are not given to students in special courses, but a certificate of proficiency will be given when the work completed is deemed worthy of it. Room and board may be secured in the community at reasonable rates.

Requirements For Admission to Short Courses

Two-Year Textile Course.—Applicants must be at least eighteen years of age, and must have had at least one year's experience in cotton mill work. A knowledge of English and Arithmetic is necessary to pursue this course. The completion of at least one year in high school is advisable though not required. Applicants for this course are required to make application on the prescribed form furnished by the college Registrar. The completion of this course does not prepare a student for admission to the freshman class. A certificate of proficiency will be given for the completion of this course if the work is deemed worthy of it.

Pre-Medical Course.—Fifteen high school units are required for admission to this course. Those desiring to- prepare for a pre medical course are advised to complete at least two years of language in high school. The prescribed application blank is required and must be mailed in advance.

The Two-Year Course in Agriculture.—The equivalent of ten units is required for admission into this course. The work is arranged so as to give thorough training in the fundamentals of the different phases of agriculture. This course is well suited to the student who desires to spend only two years in college. Some of the subjects offered may be taken as condition subjects or as pretechnical work. Applicants for the two-year course are required to send the prescribed application form showing the work completed in high school.

General Information Regarding Admission of Students to all Courses

Students desiring to enter College should apply to the Registrar for application blanks, and these, properly filled out, should be returned to the Registrar as early in the summer as possible, and in no case later than August 15th. If later the applicant may be crowded out.

Certificates of good moral character are required of all candidates; and if the candidate comes from another college, this certificate must show that he was honorably discharged.

In the admission of students who have met the requirements of the College, the following will be observed.—

1. Students must undergo a medical examination, and no student [illegible]

first [illegible]

(b) Provided there is room in the barracks after the [illegible] of the State have been met, students from outside the State may be admitted, and when once admitted may continue in College until the completion of their courses.

3. Applicants not entering promptly at the required date will have their rights given to applicants next on the roll.

Students upon arrival at the College at the opening of the session must report at once to the Registrar's office and matriculate before they will be assigned to quarters in the barracks. No student will be admitted to any of the classes or examinations of the College before matriculation and payment of fees.

Matriculation is equivalent to a pledge to conform to the rules of the College.

No applicant will be admitted until the following pledge has been filed with the Registrar. This pledge will be sent to old students and new applicants during the summer months, and must be returned promptly.

I, ______ ______ hereby make application to enter the Clemson Agricultural College as a student for the session.

In consideration of the privileges [illegible] me, I solemnly promise on my honor that should I become a student of the said College during the said session,

(1) I will not strike, haze, or in any manner inflict pain or injury on any first-year student in said College, or by physical force compel any such student to perform any service or do any act incompatible with the conduct of a cadet and a gentleman.

(2) I will promptly, and of my own initiative, withdraw from said College, should I find myself unable or unwilling to keep the above promise.

(3) I will recognize the right of the President of the College to question me as to my observance of this pledge, and to answer truthfully any question touching my observance of it.

FOUR-YEAR SCHOLARSHIPS

Statement of the State Laws and College Rules Governing the Award of Four-year Scholarships

1. Each county is allowed as many scholarships as it has representatives in the General Assembly. The total number for the State is now one hundred and seventy. The number of vacancies in any particular county can be learned by making inquiry of the Registrar of Clemson College.

2. Scholarship students are required to take one of the Agricultural Courses, except that one scholarship per county is allowed in the Textile Course. Scholarship students are not permitted to take the Engineering or other courses.

3. Each scholarship pays $100.00 per session in cash, and allows free tuition, worth $40.00 more. The regular scholarship is good for four consecutive years, unless terminated by the student's failure to maintain himself in his class and comply with the rules of the College.

The Trustees have ruled that failure to maintain himself cannot be excused on the grounds of sickness or other Providential reason.

4. A competitive examination is used as a basis for awarding the scholarships. The examinations are conducted by the County Superintendents of Education at the county seats, on the second Friday in July, from 9 A. M. to 4 P. M. (July 13, 1923)

5. All applicants are required to furnish the Registrar of Clemson College not later than July 16, 1923, the prescribed certificates showing financial inability, and the application form showing school preparation. The applicant may not be considered unless the above papers are received within the specified time.

6. The examination questions are prepared and the papers graded by the Clemson Faculty. The names of the applicants who pass the examinations and who are otherwise qualified are forwarded to the State Board of Public Welfare together with the certificates of financial inability. The State Board of Public Welfare then makes an investigation into the financial standing of the applicant, his parent or his guardian. The said Board reports its findings together with its recommendations to the Clemson College Board of Trustees. This Board makes a recommendation to the State Board of Education based upon the result of the examinations and the findings of the State Board of Public Welfare. The State Board of Education makes the final awards and hears appeals, as provided by law.

7. The applicant is tested by competitive examinations in agriculture, English, and mathematics.

8. The College has a right to reject any applicant who in respect to age (16 years at the time of entering), examinations, or in any other respect, fails to meet its requirements for admission.

9. The following are not eligible for scholarship appointments:

(a) A person who during the current year has won or holds a scholarship at another State institution.

(b) A person who has been in attendance at Clemson College or "any other institution of higher learning known as a college or university,"—provided however, that this condition shall not apply if there are no other eligible candidates for the scholarship.

(c) A person who has forfeited a scholarship at Clemson College or any other State institution by failure to maintain himself.

(d) A person, except the son of a minister of the gospel, who has not resided at least six months in the county in which he is applying for a scholarship.

10. No applicant shall be debarred from standing the examinations because he has failed to fill out the necessary certificate of financial inability as required by law. However, this certificate must be in the hands of the Registrar of Clemson College before the applicant can be considered eligible for a scholarship. (The blank certificate form can be obtained at any time from the Registrar of Clemson College, or from the County Superintendent of Education on the day of the examinations.) It must reach the Registrar not later than noon of July 16, otherwise the appilcant will be eliminated from the competition.

11. If a scholarship vacancy shall occur, and the county to which it belongs has no eligible applicant, the Clemson Faculty may fill the vacancy by awarding the scholarship to some legally eligible applicant from another county. However, any such appointment shall not last longer than the current session.

12. No recommendations for scholarship awards to alternates will be made later than 30 days after the opening of the session.

The one hundred and seventy four-year scholarships provided in this institution by the Legislature are apportioned to the counties of the State according to law as follows:

Abbeville	3	Greenwood	4
Aiken	4	Hampton	2
Allendale	2	Horry	3
Anderson	7	Jasper	2
Bamberg	3	Kershaw	3
Barnwell	3	Lancaster	3
Beaufort	3	Laurens	4
Berkeley	3	Lee	3
Calhoun	2	Lexington	4
Charleston	9	Marion	3
Cherokee	3	Marlboro	4
Chester	3	McCormick	2
Chesterfield	3	Newberry	4
Clarendon	4	Oconee	3
Colleton	3	Orangeburg	6
Darlington	4	Pickens	3
Dillon	3	Richland	6
Dorchester	2	Saluda	3
Edgefield	3	Spartanburg	8
Fairfield	3	Sumter	4
Florence	4	Union	3
Georgetown	3	Williamsburg	4
Greenville	7	York	5

Note.—Scholarship students are credited at the beginning of each quarter with one-fourth of the value of the scholarship ($25.00). See fees and expenses for full information.

TWO-YEAR AGRICULTURAL SCHOLARSHIPS

The holders of these scholarships are required to take the Two-year Agricultural Course described elsewhere in this catalogue.

No financial certificate is required of applicants for these scholarships. The Act defining them is as follows:

"Sec. 1. **Beneficiary Scholarships for Clemson.**—There are hereby established and created fifty-one beneficiary agricultural scholarships in the Clemson Agricultural College of South Carolina, said scholarships to be of the value of one hundred dollars ($100) per annum, and free tuition, and to be awarded so that there shall be one scholarship to each county, and seven scholarships from the State at large.

"Sec. 2. **To Whom Open—Examinations.**—The said scholarships shall be open to any young man a native of South Carolina, eighteen (18) years old or over, who has spent not less than three (3) years in the active practice of farming, consideration being given to the need and worth of the applicant, and to his agricultural knowledge as shown by suitable examinations. All applicants shall stand such examinations as shall be prescribed by the proper authorities of the Clemson Agricultural College, and these examinations shall be held at the same time and in accordance with the general laws governing the examinations for other scholarship students.

"Sec. 3. **Board of Education to Appoint.**—The faculty of the said Clemson Agricultural College, or committee designated by the Board of Trustees for the purpose, shall recommend to the State Board of Education for appointment to the scholarships one of the young men who has successfully passed the examination and is otherwise qualified.

"Sec. 4. **How Scholarships To Be Paid For—Term of Scholarships.**—The said scholarships shall be paid from the income of the said Clemson Agricultural College as now provided by law, and each shall continue for a term not exceeding two years, or for such length of time as the beneficiary shall be able to maintain himself as a student of the college, and the said sum of one hundred dollars ($100) per annum shall be placed to the credit of each beneficiary and applied to the payment of his board and other necessary expenses.

LOAN FUNDS

1. William Wilson Finley Foundation of the Southern Railway.

The sum of $1,000.00 has been deposited with the College to be used as a loan fund and is available for young men living in counties traversed by the Southern Railway or the Blue Ridge Railway. The following conditions govern the use of this fund:

(a) That no help be extended to a student during his first year in College.

(b) That after he has been in College for one year, and during that time demonstrated not only his need, but his worth in character, studiousness and promise, the President of the College may at any time during the session loan to such needy student a sum not to exceed seventy-five dollars in any one session, provided the beneficiary is pursuing a regular agricultural course (one-year or (four-year course), is a resident of a county traversed by the Southern Railway, or the Blue Ridge Railway, and does not hold a scholarship of any kind.

(c) That the student receiving this financial assistance shall give his note bearing 6 per cent. interest, payable one, two, or three years after completion of course. The loans of the first year shall be payable within one year after completion of the course, and any second and third loans shall be payable two and three years respectively after date of normal completion of the course. At the discretion of the President the student may be required to furnish at least one endorsement from a financially responsible party, who may be the student's parent or guardian.

(d) The President shall at the close of each fiscal year, June 30, make a statement to the Clemson College Board of Trustees and to the President of the Southern Railway, giving full details as to the use and status of the Fund.

(e) Not more than one-fourth of the Fund shall be loaned in any one fiscal year.

2. George Cherry Foundation.

Mrs. Mary Cherry Doyle of Oconee County has donated the sum of $1000.00 to be used as a loan fund to worthy and needy students from Oconee and the part of Anderson County including Pendleton. The purpose of the fund is to commemorate her father the late George Cherry, whose old home is near the College.

The folowing conditions govern the use of this fund:

1. That after a student has been in college for one Semester, and during that time demonstrated his character, studiousness and promise, as well as his need for help, the President of the College may at any time thereafter during the session, lend to such student a sum not to exceed $100.00 during any one session; provided, that loans shall be made only to students who are pursuing regular two

year or four year courses, and who are residents of Oconee County, or of the territory within a radius of five miles of Pendleton Courthouse, and who do not hold other scholarships of any kind.

2. That the student receiving this financial assistance shall give his note bearing 6 percent. interest, payable one, two or three years after completion of course. The loans of the first year shall be payable within one year after completion of the course, and any second, third and fourth loans shall be payable two, three or four years respectively after date of normal completion of the course.

At the discretion of the President, the student may be required to furnish at least one endorsement from a financially responsible party, who may be the student's parent or guardian.

3. The President shall at the close of each fiscal year, June 30, make a statement to the Clemson College Board of Trustees, giving full details as to the use and status of the Fund, and this shall be published in the Oconee papers.

4. Not more than one-fifth of the Fund shall be loaned in any one fiscal year.

FEES AND EXPENSES

The fees and living expenses will be approximately as listed below. A leaflet giving the exact cost, including uniforms, will be mailed to the parents of all applicants prior to the opening of college in September. The cost of books, which varies with the class and course, is not included in the figures given below:

	Items			
	1st quarter payable on entrance	2nd quarter payable Nov. 10th.	3rd quarter payable Jan. 26th.	4th quarter payable Mar. 29th.
Fees				
Matriculation Fee	$ 3.00	$ 0.00	$ 0.00	$ 0.00
Hospital Fee at $1.25 per mo	2.82	2.81	2.81	2.81
Breakage Fee	3.00	0.00	0.00	0.00
Laboratory Fee at 25c. per mo.	.57	.56	.56	.56
Incidental Fee at $1 per mo	2.25	2.25	2.25	2.25
Student Activity Fee	3.00	3.00	3.00	3.00
Living Expenses				
Board at $16 per mo	$36.00	$36.00	$36.00	$36.00
Room, Heat, Light and Water at $2.10 per mo.	4.73	4.73	4.72	4.72
Laundry at $1.33 1-3 per mo.	3.00	3.00	3.00	3.00
Uniforms (See below)—See explanation below—Uniforms				
(1) Total Without Tuition	$58.37	$52.35	$52.34	$52.34

Tuition if paid	10.00	10.00	10.00	10.00
(2) Total With Tuition	$68.37	$62.35	$62.34	$62.34
Credit to Scholarship Students ($100 plus $40 free tuition)	35.00	35.00	35.00	35.00
(3) Total for Scholarship Students	$33.37	$27.35	$27.34	$27.34

Settlement of College Fees.—Remittances should be made in cash, by money order, New York Exchange, or by local check, made payable to S. W. Evans, Treasurer. All required fees must be paid before a student can be assigned to a room in the barracks or permitted to begin work.

Uniforms: A student is not required to pay for his uniform on the opening day in September. The needs of the cadet will first be determined, full credit being allowed for any serviceable garments that pass inspection. A bill showing the garments needed as well as the cost will be mailed to parents.

The cost of the uniform cannot be definitely given at the time this catalogue goes to press. The uniforms are purchased by the college on the most favorable contract obtainable from a reputable manufacturer. The college makes no charge for handling the uniforms and makes no profit on them. If any allowance is made for uniforms by the Government this will be credited on the account.

Each student is required to provide himself with a dress uniform and a service uniform. If properly cared for the dress uniform should last for four years and the service uniform more than one session. After the first year the cost of uniforms should therefore be cut approximately in half.

Shoes: In addition to ordinary high top black shoes each cadet will be required to have one pair of tan shoes, army style.

Medical Fee: The medical fee paid by each student is intended to cover all ordinary cases of sickness and the treatment and medicines necessary. It is not intended to cover fees of doctors called into consultation, for performing operations, for special nurses, or for any medical or surgical attentions performed away from the college. The right of the college surgeon , with the approval of the President of the college, to incur in behalf of any student under his care any of these extra services is hereby expressly reserved.

Student Activity Fee: This fee entitles a cadet to admission to all lyceum entertainments, athletic games, privilege of Y. M. C. A. Building, and subscription to the college papers, "The Tiger" and "The Chronicle."

Breakage. The breakage fee of $3.00 is a deposit to cover damages or destruction of College property when individual responsibility can not be located. Any amount remaining to the credit of a student at the end of the session will be refunded. A student will be required to pay directly to the Treasurer for any damage done to College property for which he is personally responsible. The occupants of a room will be held responsible for any damage to property in the room.

Tuition. Tuition is $40.00 per session, payable quarterly. Free tuition is granted to residents of South Carolina unable to pay the same provided they comply with the State laws. All applicants for free tuition must file with the College the prescribed application to the State Board of Public Welfare. This blank will be sent to all applicants by August 15th, and must be returned properly filled in before the opening of College.

Immediately after the opening of College, the application is forwarded to the State Board of Public Welfare which Board is required by law to investigate the finanical standing of the parents or guardian, or the applicant himself if he is of age. This Board reports its finding, together with its recommendations, to the Clemson College Board of Trustees, who may revoke or confirm the recommendations.

Any person required to pay tuition may appeal to the State Board of Education as provided by law.

Applicants filing the prescribed form will be granted free tuition pending investigation by the State Board of Public Welfare and action by the Board of Trustees. Applicants for free tuition will be notified of the results of the investigation by about the first of January.

All Students are required to provide themselves with two mattress covers, and two clothes bags. These are regulation articles and can be secured only at the Cadet Exchange. They will last for the entire course of four years and can often be bought second hand.

The following list is suggested as being necessary for the convenience and comfort of cadets. The sheets, pillow and pillow cases must be brought from home, but the other articles may be purchased from stores in the vicinity of the college or brought from home as the student desires.

1 Comb.
4 Shirts.
1 Pillow
6 Towels
1 Soap box.
1 Rain coat.
1 Hair brush.
1 Tooth brush.
2 Pillow cases.
1 Cake of soap.
1 Box black shoe polish.
1 Box tan shoe polish.
4 Undershirts.
1 Shaving outfit.
6 Handkerchiefs.
1 Shoe brush.
4 Suits summer underwear.
2 Suits winter underwear.
4 Pairs socks.
3 Nightshirts or pajamas.
2 Blankets or comforters.
4 Single-width bed sheets.
1 Pair rubbers (necessary).
1 Clothes brush or whisk broom.

The diploma fee is payable before graduation.

Refund to Students. Refunds will be made to students under the following rules:

1 A refund for uniforms will not be guaranteed to students who withdraw from the college after the uniforms have been ordered. If order cannot be cancelled the uniforms will be sent to the cadet upon receipt of the same.

2 A refund for living expenses will be made at the rates charged, but no refund will be made for interruptions of less than two weeks or in cases of discharge issued less than two weeks from the end of the current quarter.

3 No fees will be refunded.

4. A refund of all moneys, except the matriculation fee of $3.00 and $1.00 per day for board, etc. will be made to a student who fails to meet the entrance requirements and who leaves college within ten days of the date of his matriculation; provided, however that the refund for uniform cannot be guaranteed if the same has been ordered.

5 Any balance of the $3.00 breakage fee at the end of the session will be sent to the parents after the close of the session in June.

6 The college will not be liable for articles lost or stolen in the baracks.

7 The college will not be liable for lost or damaged laundry, unless reported within two days after the date upon which laundry was due to be delivered and then not more than the actual depreciated value of such articles as have been lost or damaged.

Optional Expenses. It is not possible to give an estimate of a cadet's expenditures for such amusements as dancing, moving pictures, etc. This depends largely upon the disposition of the young man. The college endeavors to reduce to a minimum the temptation to spend money needlessly, but the authorities cannot be responsible for cadet's private expenditures. This must be a matter between him and his parents.

Subscription to the "Annual" and membership in the Literary Societies are very desirable, but are optional. These will cost approximately $5.00 for the session.

FACULTY RULES

Grades and Examinations 1. The semester hour shall be the basis of all credits. One recitation hour or two laboratory or shop hours per week for one semester shall constitute a semester hour.

2. Reports of standing in class shall be made by all instructors through the Director to the Registrar at the middle and at the end of each semester. These reports shall be based on daily recitations and such tests as may be required.

3. Written examination shall be required in all subjects at the end of each semester, except in certain laboratory or practical courses where not deemed necessary by the departmental faculty.

4. A semester grade once reported to the Registrar shall be the final grade for the period covered.

5. Separate grades shall be given on theoretical and practical work except where in the judgment of the departmental faculty separate grades are not practical.

6. No semester grade shall be given out until the close of the examination period for that class.

7. A student who for reasons satisfactory to the Faculty is absent from any of his semester examinations, will be allowed to make up these examinations during the following semester at the convenience of the instructor.

8. All work missed on account of absences from class must be made up to the satisfaction of the instructor.

9. When an instructor completes a subject he may hold an examination on it before beginning the next subject, provided such examination does not conflict with the regularly scheduled work .

10. The grading system shall be as follows:

E—Excellent
S—Satisfactory
P—Passable
D—Conditioned. (Deficient on work, either class or examination, which in the opinion of the instructor may be made up by a re-examination)
F—Failed. (Deficient on work, either class or examination which in the opinion of the instructor must be taken over in class)
I—Incomplete record due to absence or other causes.
?'—Symbol to be used in Registrar's office to denote a missing grade.

Conditions and Failures 11. A student who has made grades of D or F on more than 9 credit hours of work at the end of the first semester or more than 18 credit hours at the end of the session shall be required to withdraw from college.

12. Ten credit hours of conditions may be removed during a regular make-up period and eight credit hours of failures taken over at an approved summer school or during the regular session.

13. All conditions, except for seniors, must be removed during the make-up period preceding the opening of the regular session in September. Only one re-examination will be permitted. All conditions or incomplete grades (D, I) not removed by the first class day of the first semester shall become failures and must be taken over as such. Seniors may remove conditions during the week preceding commencement.

14. All failures or take-over work shall be scheduled first and a continuation subject in the next higher class shall not be scheduled until credit has been received for its prerequisites. All take-over work must be scheduled within ten days after the beginning of a semester and not more than five actual clock hours may be scheduled in addition to the published curriculum.

15. A student who has failed in a subject cannot receive credit for that subject until it has been repeated hour for hour in class, except that in the case of correlated laboratory work, the number of hours to be taken shall be determined by the instructor. Where separate grades for class and laboratory work are given the subject shall be repeated in full.

16. A student who schedules subjects in addition to the regular curriculum and fails to pass on any work at the end of the first mid-semester, shall drop the additional work.

17. A student who has take-over work in addition to the required hours and fails to pass on any work at the end of the first mid-semester shall drop a sufficient number of hours of the regular advanced subjects to reduce his scheduled hours to the required minimum.

18. A senior who fails to graduate because of either one D or one F on any subject shall have an opportunity of removing it by examination during the make-up period in September, provided the cadet can furnish evidence of having done satisfactory study. Failing to do this he shall take the subject over with the next class. In either case, the degree will not be awarded until the following commencement.

Requirements for Graduation 19. The completion of as many credit hours as are listed in the description of courses in the catalogue shall be required for a degree. All work must be completed by 5 P. M. on the Saturday preceding commencement.

20. Residence of at least one regular session shall be required for graduation.

Classification 21. In general, students will be classified with the class in which they are taking the majority of their credit hours.

22. A student taking an irregular or special course must schedule as many as 12 credit hours.

Change of Course 23. No change in course will be permitted after the first thirty days of a session.

Honors and Medals 24. The names of all cadets who at the end of each semester have no failures, no work to make up, and not more than 30 demerits, shall be published and a notice sent to their parents.

25. The Norris Medal shall be awarded to that graduate who shall deserve the same because of meritorious conduct and scholarship. His scholarship shall be determined by the average semester marks for the last three years of his college course.

Miscellaneous 26. Each student shall be required to own his individual text books and the necessary equipment except in the case of brothers in the same class who room together.

27. All requests from the students to the faculty must be made in writing.

DEGREES, MEDALS, AND HONORS

Degrees. The degree of Bachelor of Science (B. S.) will be conferred upon students who satisfactorily complete one of the prescribed four-year courses of study and submit an approved thesis.

Honorable Mention.—Students who at the end of a semester have no failures, no work to make up, and not over thirty demerits will have their names publicly announced, printed in "The Tiger," and notification sent to their parents.

Trustees' Medal.—The Board of Trustees has established a gold medal, to be awarded annually to the best speaker among the representatives of the literary societies at Commencement. These representatives are chosen by judges selected by the societies at the annual public exercises in Memorial Hall. The medal is awarded by judges selected by the Faculty. (Won in 1922 by Cadet R. W. Coarsey).

Norris Medal. The following is from the will of Hon. D. K. Norris, a life trustee of Clemson, who died in 1905:

"I give $500 face value, Norris Cotton Mill stock, to the Trustees of Clemson Agricultural College of South Carolina, on condition the dividend thereon shall be applied annually to the purchase of a gold medal, to be known as the 'Norris Medal,' to be awarded to the student of Clemson meriting the same at graduation, under such rules and conditions as may be perscribed by the said Board of Trustees, and which medal shall have engraved on it 'Honos habet onus' (Honor brings responsibility)."

In 1922 the medal was awarded to L. A. Burckmyer of Aiken County.

R. W. Simpson Medal. A medal designated at the "R. W. Simpson Medal" is awarded annually to the best drilled cadet in the freshman, sophomore, or junior class.

Beginning with the session 1920-21 the "R. W. Simpson medal" has been awarded annually and becomes the permanent possession of the cadet that wins it. This medal was won in 1922 by Cadet W. B. Williams.

Literary Society Medals—It is customary for the literary societies to award gold medals annually for debates, oratory and declamation. In 1921-1922 the following medals were awarded:

Calhoun Society—J. M. Dunlap, debate; C. T. Young, declamation; R. W. Coarsey, oration.

Columbian Society—J. D. Warner, debate; D. W. Stribling, declamation; W. J. Stribling, oration.

Palmetto Society—J. G. S. Cappleman, debate; M. B. Brissie, declamation; C. B. King, oration.

The Chronicle Medals.—The Chronicle, the monthly magazine published by the literary societies, also usually awards three gold medals, for the best story, the best poem, and the best essay contributed by students during the year.

Farmers' Certificates of Merit,—Beginning with the session of 1914-1915 certificates of merit have been awarded each session to two farmers in South Carolina who have rendered distinguished services in the agricultural development of the state.

The following were awarded certificates at commencement 1922. Dan E. Good, Walhalla, S. C., and J. Wade Drake, Anderson, S. C.

COURSES OF INSTRUCTION

The College offers the following courses of study:

AGRICULTURE

(a) Four-year courses in Agriculture with major work in Agronomy, Animal Husbandry, Chemistry, Dairying, Education, Entomology and Horticulture.
(b) Two-Year Course in Agriculture.

CHEMISTRY

(a) Four-year course in Chemistry.
(b) Four-year course in Chemical Engineering.

ENGINEERING

(a) Four-year course in Architecture.
(b) Four-year course in Civil Engineering.
(c) Four-year course in Electrical Engineering.
(d) Four-year course in Mechanical Engineering.

TEXTILE

(a) Four-year course in Textile Industry.
(b) Four-year course in Industrial Education.
(c) Two-year course in Textile Industry.

GENERAL SCIENCE
(a) Four-year course in General Science
(b) Pre-Medical Course.

SUMMER SCHOOL
Short courses are offered during the months of June and July to teachers, cotton graders, agricultural club boys, candidates for admission to college, and college students with work to make-up.

DEGREES

The degree of Bachelor of Science (B. S.) is conferred upon the completion of the regular four-year courses. The two-year course does not lead to a degree.

(EXPLANATION—In the curriculums which follow the first column of figures represent the number of semester hours of credit assigned to each subject, The two figures in parenthese are the actual number of hours per week spent in class and laboratory respectively.

All students are required to take military drill three hours per week. In the junior year the R. O. T. C. students take in addition two hours of class work in Military Science, while the non-R. O. T. C. take Business Law the first semester and Meterology the second semester.

The R. O. T. C. seniors take also the two hours of Military Science and the non- R. O. T. C. take Psychology.)

I.—AGRICULTURE

The course in Agriculture, supplemented by work in Mathematics, English, Political Economy, Rural Sociology, History, and the Natural Sciences. allows no differentiation during the first and second years. Its object is to give the student a broad general knowledge of the subject so that he will have a sound foundation for specialization during his Junior and Senior years. At the end of the Sophomore year it is expected that he will be able to choose intelligently which line of agricultural work he desires to follow.

In the Junior year a student is given the choice of four general branches of Agriculture. He may select one of the following groups: Animal Industry, Plant Industry, Agricultural Chemistry, and Agricultural Education. At the beginning of the Senior year, the student who as a Junior selected the Animal Industry group will major either in Animal Husbandry or in Dairying. The student who as a Junior selected Plant Industry. will major in either Agronomy, Horticulture, or Entomology. The student who selected Chemistry will continue his chemical work, and the student who selected Agricultural Education will continue the study of this subject. A major course requires six hours per week of recitations, and six hours per week of laboratory each semester. In addition to the major work during the Senior year, a sufficient number of elective courses must be selected to bring the number of semester credit hours up to 18. A minimum of 18 semester credit hours is required. No student can elect over 20 semester credit hours without special permission of the faculty. In calculating semester credit hours, two hours of laboratory count as one hour of theoretical.

COURSE I.—AGRICULTURE

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 1	3	(3,0)	Mathematics 2	3	(3,0)
English 1	3	(3,0)	English 2	3	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Chemistry 1	4	(3,2)	Chemistry 2	4	(3,2)
Biology—Botany 1	3	(2,2)	Biology—Botany 2	3	(2,2)
Drawing 1 and Shop 5	2	(0,4)	Drawing 8 and Shop 6	2	(0,4)
Military Science 1	1.5	(0,3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SOPHOMORE YEAR

First Semester			Second Semester		
English 3	3	(3,0)	English 4	3	(3,0)
Physics 3	3	(2,2)	Physics 4	3	(2,2)
Geology 1	3	(3,0)	Geology 2	1	(0,2)
Morphology—Botany 5	3	(2,2)	Zoology 2	4	(3,2)
Forestry—Botany 3	2	(2,0)	Animal Husbandry 2	4	(3,2)
Corn and Cotton—Agron. 1	4	(3,2)	Farm Machy.—Agron. 2	4	(3,2)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0,3)
	19.5			20.5	

JUNIOR YEAR

First Semester			Second Semester		
English 5	2	(2,0)	English 6	2	(2,0)
Agric. Chemistry 19	2	(2,0)	Agric. Chemistry 20	2	(2,0)
Bacteriology 1	4	(2,4)	Dairy Husbandry 2	3	(2,2)
F. Management—Agron. 3	3	(2,2)	Soils—Agron. 4	4	(3,2)
Horticulture 1	3	(2,2)	Horticulture 2	2	(1,2)
Military Science 5	3.5	(2,3)	Military Science 6	3.5	(2,3)
Electives	3		Electives	4	
	20.5			20.5	

Junior Elective Subjects.

(Choose one group)

Group A—Animal Industry

Prin. Feeding—Ani. Husb. 3	3	(2,2)	Veterinary Science 2	3	(2,2)
			Judging—Dairy H. 4.	1	(0,2)

Group B—Plant Industry

Entomology 3	3	(2,2)	Plant Phys.—Botany 6	4	(2,4)

Group C—Chemistry

Organic Chemistry 7	2	(2,0)	Organic Chemistry 8	2	(2,0)
Quant. Analysis—Chem. 9	1	(0,2)	Quant, Analysis—Chem. 10	2	(0,4)

Group D—Education.

Education 1	3	(3,0)	Plant Phys.—Botany 6	4	(2,4)

SENIOR YEAR

At the beginning of the senior year the student is required to select one of the following major groups and in addition a sufficient number of electives from its accompanying list to make not less than 18 or more than 20 semester credit hours for each semester.

The student must schedule during the first semester either Political Economy 3 or Rural Sociology 1, as one of the electives.

Agronomy Major—1

First Semester			Second Semester		
Genetics—Agron. 5	3	(2,2)	Plant Breed.—Agron. 6	3	(2,2)
Crops—Agron. 9	3	(2,2)	Crops—Agron. 10	3	(2,2)
Forage Crops—Agron. 7	3	(2,2)	Fertilizers—Agron. 12	3	(2,2)
Military Drill 7	1.5	(0,3)	Military Drill 8	1.5	(0,3)

Agronomy Electives.

Drainage—Agron. 13	3	(2,2)	F. Equipment—Agron. 14	3	(2,2)
Marketing—Agron. 17	3	(2,2)	F. Management—Agron. 16.	3	(2,2)
Entomology 3	3	(2,2)	Plant Breed.—Agron. 6	3	(2,2)
English 7	2	(2,0)	English 8	2	(2,0)
Education 5	3	(2,2)	Education 16	3	(3,0)
Education 7	4	(3,2)	Rural Sociology 2	3	(2,2)
R. O. T. C.—Advanced 7	2	(2,0)	R. O. T. C. Advanced 8	2	(2,0)

Animal Husbandry Major—2

Feeds—Ani. Husb. 5	3	(2,2)	Beef Production—A. H. 6.	3	(2,2)
Animal Production—A. H. 7	3	(2,2)	Pork Production—A. H. 8	3	(2,2)
Judging—Ani. Husb. 9	3	(2,2)	Breeding—Ani. Husb. 4	3	(2,2)
Farm Shop—Agron. 15	2	(1,2)			
Military Drill 7	1.5	(0,3)	Military Drill 8	1.5	(0,3)

Animal Husbandry Electives

Veterinary Science 3	3	(2,2)	F. Management—Agron. 16	3	(2,2)
Marketing—Agron. 17	3	(2,2)	English 8	2	(2,0)
English 7	2	(2,0)	Rural Sociology 2	3	(2,2)
Forage Crops—Agron. 7	3	(2,2)	Education 16	3	(3,0)
Genetics—Agron. 5	3	(2,2)			
Education 5	3	(2,2)			
Education 7	4	(3,2)			
R. O. T. C. n—Advanced 7	2	(2,0)	R. O. T. C.—Advanced 8	2	(2,0)

Chemistry Major—3

Industrial Chemistry 23	2	(2,0)	Industrial Chemistry 24	2	(2,0)
Hist. of Chemistry 25	2	(2,0)	Stoichiometry—Chem. 26	2	(2,0)
Inorg. Chemistry 27	2	(2,0)	Inorg. Chemistry 28	2	(2,0)
Quant. Analysis—Chem. 29	3	(0,6)	Quant. Analysis—Chem. 30	3	(0,6)
Military Drill 7	1.5	(0,3)	Military Drill 8	1.5	(0,3)

Chemistry Electives

Mineralogy 7	3	(2,2)	Mineralogy 8	3	(2,2)
English 7	2	(2,0)	English 8	2	(2,0)
			Rural Sociology 2	3	(2,2)
			Fertilizers—Agron. 12	3	(2,2)
			Bacteriology 4	4	(2,4)
R. O. T. C. 7	2	(2,0)	R. O. T. C. 8	2	(2,0)

Dairy Husbandry Major—4

First Semester			Second Semester		
Dairy Mfg.—Dairy Husb. 5	3	(2,2)	Dairy Mfg.—Dairy Husb. 6	4	(2,4)
Creamery Org.—D. Husb. 7	3	(3,0)	Dairy Farm.—Dairy Husb 12	3	(2,2)
Feeds—Dairy Husb. 9	3	(2,2)	Breeding—Dairy Husb. 10	2	(1,2)
Military Drill 7	1.5	(0,3)	Military Drill 8	1.5	(0,3)

Dairy Husbandry Electives.

Veterinary Science 3	3	(2,2)	Rural Sociology 2	3	(2,2)
Forage Crops—Agron. 7	3	(2,2)	Bacteriology 2	4	(2,4)
Genetics—Agron. 5	3	(2,2)	English 8	2	(2,0)
English 7	2	(2,0)	Pork Production—A. H. 8	3	(2,2)
Education 5	3	(2,2)	Education 16	3	(3,0)
Education 7	4	(3,2)			
R. O. T. C.—Advanced 7	2	(2,0)	R. O. T. C.—Advanced 8	2	(2,0)

Education Major—5

Ed. Psychology—Ed. 5	3	(2,2)	Spec. Methods—Ed. 8	4	(3,2)
Prin. Teaching—Ed. 7	4	(3,2)	Pract. Teaching—Ed. 14	3	( )
Military Drill 7	1.5	(0,3)	Military Drill 8	1.5	(0,3)

Education Electives.

Genetics—Agron. 5	3	(2,2)	F. Management—Agron. 16	3	(2,2)
English 7	2	(2,0)	English 8	2	(2,0)
Marketing—Agron. 17	3	(2,2)	Plant Breeding—Agron. 6	3	(2,2)
Forage Crops—Agron. 7	3	(2,2)	F. Equipment—Agron. 14	3	(2,2)
Entomology 3	3	(2,2)	Rural Sociology 2	3	(2,2)
Management—Ed. 19	3	(3,0)	Administration—Ed. 16	3	(3,0)
Education 15	3	(3,0)	Teasts and Meas.—Ed. 18	3	(3,0)
Feeds—Ani. Husb. 5	3	(2,2)	Psychology—Ed. 4	2	(2,0)
Psychology—Ed. 3	2	(2,0)			
Farm Shop—Agron. 13	2	(1,2)			
R. O. T. C.—Advanced 7	2	(2.0)	R. O. T. C.—Advanced 8	2	(2,0)

Entomology Major—6

F. Crop Insects—Ent. 5	3	(2,2)	F. Crop Insects—Ent. 10	3	(2,2)
Stored Prod. Insects—Ent. 7	3	(2,2)	Orchard Insects—Ent. 12	3	(2,2)
Medical Entomology 9	3	(2,2)	Apiculture—Ent. 14	2	(2,0)
Military Drill 7	1.5	(0,3)	Military Drill 8	1.5	(0,3)

Entomology Electives.

English 7	2	(2,0)	Quarantine Meth.—Ent. 16	3	(2,2)
Education 5	3	(2,2)	English 8	2	(2,0)
Education 7	4	(3,2)	Meteorology—Geology 10	2	(2,0)
Pomology—Hort. 3	3	(2,2)	Education 16	3	(3,0)
			Pomology—Hort. 4	3	(2,2)
			F. Equipment—Agron. 14	3	(2,2)
			Plant Breeding—Agron. 6	3	(2,2)
			Rural Sociology 2	3	(2,2)
			Anatomy—Ent. 18	2	(2,0)
R. O. T. C.—Advanced 8	2	(2,0)	R. O. T. C.—Advanced 8	2	(2,0)

Horticulture Major—7

Pomology—Hort. 3	3	(2,2)	Pomology—Hort. 4	3	(2,2)
Floriculture—Hort. 9	3	(2,2)	Olericulture—Hort. 8	3	(2,2)
Olericulture—Hort. 7	3	(2,2)	Landscape G.—Hort. 6	3	(2,2)
Military Drill 7	1.5	(0,3)	Military Drill 8	1.5	(0,3)

Horticulture Electives.

First Semester

Genetics—Agron. 5	3	(2,2)
Marketing—Agron. 17	3	(2,2)
English 7	2	(2,0)
Education 5	3	(2,2)
Education 7	4	(3,2)
R. O. T. C.—Advanced 7	2	(2,0)

Second Semester

F. Equipment—Agron. 14	3	(2,2)
F. Crop Insects—Ent. 10	3	(2,2)
English 8	2	(2,0)
Education 16	3	(3,0)
Plant Breeding—Agron. 6	3	(2,2)
Meteorology—Geology 10	2	(2,0)
Rural Sociology 2	3	(2,2)
Orchard Insects—Ent. 12	3	(2,2)
R. O. T. C.—Advanced 8	2	(2,0)

II.—ARCHITECTURE

Architecture, always ranked as a fine art, is the oldest of the constructive sciences. It deals principally with the design of buildings, their sites and presentation, their construction, decoration and equipment. It is more circumscribed by utilitarian and technical conditions than any other of the fine arts, and in order to be successful it must be both practical and artistic.

Architectural design is the principal subject and a large amount of time is given to it. In this subject students work out, in the drafting room, designs for a great variety of buildings, ranging from small structures to large public buildings and groups of buildings. Occasionally, a "sketch" problem which has to be completed the same day, is given, but usually the problems require from three to six weeks for their completion. Individual criticism is given by the instructor during the progress of the problem and upon completion, the drawings are hung up, criticized, judged and graded by members of the faculty. Thus, each student may profit by the experience of others. The aim throughout this course is to develop imagination, creative power, ability to work out the organism of a building and skill in the clear and artistic presentation of the drawings.

History of architecture is also of great importance in this connection, for the architect must know the experiences and inspirations of the past, its successes and failures, that he may better live, think and build in terms of the present. The courses in freehand drawing and historial ornament are given not only for training in draftsmanship, but for creating effective work.

Strong courses in the constructional or engineering side of the profession ,such as mathematics, mechanics. building construction, structural or working drawings, are given.

Students pursuing this course are advised to spend one or more summers in the routine work of an architect's office, as those who have had this experience advance faster in their work than others. For mature men, who have had extended experience in architect's offices a two year course will be offered.

COURSE II.—ARCHITECTURE

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 3	5	(5,0)	Mathematics 4	5	(5,0)
English 1	3	(3,0)	English 2	3	(3,0)
Physics 1	3	(2,2)	Physics 2	3	(2,2)
History 1	3	(3,0)	History 2	3	(3,0)
Drawing 3, 11	2	(0,4)	Drawing—Arch. 2, 4	2	(0,4)
Shops 3, 19	2	(0,4)	Des. Geom.—Arch. 6	2	(0,4)
Military Science 1	1.5	(0,3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SOPHOMORE YEAR

Analytics—Math. 5	4	(4,0)	Calculus—Math. 6	4	(4,0)
English 3	3	(3,0)	English 4	3	(3,0)
Hist. of Arch.—Arch. 7	3	(3,0)	Hist. of Arch.—Arch. 8	3	(3,0)
Design—Arch 11	7	(0.14)	Design—Arch. 12	7	(0,14
Cast Draw.—Arch. 9	1	(0,2)	Cast Draw.—Arch. 10	1	(0,2)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0,3)
	19.5			19.5	

JUNIOR YEAR

English 5	2	(2,0)	English 6	2	(2,0)
Calculus—Math. 7	3	(3,0)	Graphic Statics—C. E. 10	3	(3,0)
Mechanics—M. E. 3	3	(3,0)	Str. Materials—C. E. 8	3	(3,0)
Bldg. Construction-Arch. 17	2	(2,0)	Bldg. Construc.—Arch 18	2	(2,0)
Design—Arch. 15	5.5	(1,11)	Design—Arch. 16	5.5	(0.11
Cast Draw.—Arch. 13	1	(0,2)	Cast Draw.—Arch. 14	1	(0,2)
Military Science 5	3.5	(2,3)	Military Science 6	3.5	(2,3)
	20			20	

SENIOR YEAR

Economics—Hist. 3	2	(2,0)	Sociology—Hist. 4	2	(2,0)
Bldg. Construc.—Arch. 23	5	(5,0)	Bldg. Construc.—Arch. 24	5	(5,0)
Heat and Sani.—Arch. 25	1	(1,0)	Heat and Sani.—Arch 26	2	(2,0)
Design—Arch. 19.	5.5	(0,11)	Design—Arch. 20	5.5	(0,11)
Struct. Design—Arch. 21	3	(0,6)	Struct. Design—Arch. 22	3	(0,6)
Military Science 7	3.5	(2,3)	Military Science 8	3.5	(2,3)
	20			21	

III.—CHEMISTRY

This course is intended to prepare the student for engaging in manufacturing operations involving chemistry, or for employment as chemist in commercial or fertilizer inspection laboratories, and experiment station or U. S. Government service. A student completing this course satisfactorily will also be well equipped to teach elementary chemistry and to pursue advanced work in chemistry.

The first year of the course is the same as in Course I, Agriculture. Beginning in the freshman year, and continuing throughout this course, increasing stress is laid upon chemistry, until in the senior year when all practical work, with the exception of military drill and bacteriology is devoted to quantitative analysis, inorganic and organic, and thesis work.

With the above stated ends in view the student will be given an opportunity to become familiar with many commercial methods of analysis and general laboratory work. He will be permitted and encouraged to undertake as many such methods as he can perform without interfering with that indispensable fundamental instruction necessary to every properly trained analytical chemist.

The student is well grounded in English, mathematics, physics, mineralogy, chemical geology, and chemistry, the emphasis being given to chemistry throughout the course.

COURSE III.—CHEMISTRY

FRESHMAN YEAR

First Semester			**Second Semester**		
Mathematics 1	3	(3,0)	Mathematics 2	3	(3,0)
English 1	3	(3,0)	English 2	3	(3,0)
History 1	3	(3.0)	History 2	3	(3,0)
Chemistry 1	4	(3,2)	Chemistry 2	4	(3,2)
Biology—Botany 1	3	(2,2)	Biology—Botany 2	3	(2,2)
Drawing 1 and Shop 5	2	(0.4)	Drawing 8 and Shop 6	2	(0,4)
Military Science 1	1.5	(0.3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SOPHOMORE YEAR

Analytics—Math. 5	4	(4,0)	Calculus—Math. 6	4	(4,0)
English 3	3	(3,0)	English 4	3	(3,0)
Physics 3	3	(2.2)	Physics 4	3	(2,2)
Organic Chemistry 7	3	(2,2)	Organic Chemistry	3	(2,2)
Qual. Analysis Chem. 3	3	(0,6)	Qual. Analysis—Chem. 4	3	(0,6)
Inorg. Prep.—Chem. 5	1	(0,2)	Assaying—Chem. 6	1	(0,2)
Quant. Analysis—Chem. 9	1	(0,2)	Quant. Analysis—Chem. 10	1	(0,2)
Military Science 3	1.5	(0,3)	Military Science 3	1.5	(0,3)
	19.5			19.5	

JUNIOR YEAR

English 5	2	(2,0)	English 6	2	(2,0)
Mineralogy—Geology 7	3	(2,2)	Mineralogy—Geology 8	3	(2,2)
Metallurgy—Chem. 21	2	(2,0)	Metallurgy—Chem. 22	2	(2,0)
Organic Chemistry 15	4	(2,4)	Organic Chemistry 16	4	(2,4)
Physical Chemistry 11	3	(2,2)	Physical Chemistry 12	3	(2,2)
Quant, Analysis Chem. 13	2	(0.4)	Quant. Analysis—Chem. 14	2	(0,4)
Military Science 5	3.5	(2,3)	Military Science 6	3.5	(2,3)
	19.5			19.5	

SENIOR YEAR

Economics—Hist. 3	2	(2,0)	Sociology—Hist. 4	2	(2,0)
Chemical Geology—Geol. 5	2	(2,0)	Chemical Geology—Geol. 6	2	(2,0)
Bacteriology 1	4	(2 4)	Bacteriology 4	4	(2,4)
Indust. Chemistry 23	2	(2,0)	Indust. Chem. 24	2	(2,0)
Hist. of Chemistry 25	2	(2,0)	Stoichiometry—Chem. 26	2	(2,0)
Inorg, Chemistry 27	2	(2,0)	Inorg. Chem. 28	2	(2,0)
Quant. Analysis—Chem. 29	3	(0,6)	Quant. Analysis—Chem. 30	4	(0,8)
Military Science 7	3.5	(2,3)	Military Science 8	3.5	(2,3)
	20.5			21.5	

IV.—CHEMICAL ENGINEERING

This course is designed to lay the foundation for the preparation of the student for the profession of the Chemical Engineer.

An effort has been made to introduce enough engineering subjects to give the students the fundamentals of the various branches of engineering, and at the same time to retain the essential features of Course III.

The Freshman year of this course is the same as that of all the other engineering courses offered. The study of chemistry begins in the Sophomore year and continues throughout the course, embracing general, organic, physical and industrial chemistry, as well as electro-chemistry, together with laboratory work in qualitative and quantitative analysis, inorganic and organic preparations, physical and electro-chemical work.

The engineering subjects in this course include surveying, machine design, structural drawing, mechanical and electrical engineering.

COURSE IV.—CHEMICAL ENGINEERING

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 3	5	(5,0)	Mathematics 4	5	(5,0)
English 1	3	(3,0)	English 2	3	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Physics 1	3	(2,2)	Physics 2	3	(2,2)
Shop 1, 17	2	(0,4)	Shop 2, 18	2	(0,4)
Drawing 5, 9	2	(0.4)	Drawing 6, 10	2	(0,4)
Military Science 1	1.5	(0.3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SOPHOMORE YEAR

Analytics—Math. 5	4	(4,0)	Calculus—Math. 6	4	(4,0)
English 3	3	(3,0)	English 4	3	(3,0)
Physics 5, 7	4	(3,2)	Physics 6, 8	4	(3,2)
Surveying—C. E. 3	2	(1,2)	Surveying—C. E. 4	2	(1,2)
Des. Geometry—Draw. 13	1	(0,2)	Drawing 14	1	(0,2)
Chemistry 1	3	(2,2)	Chemistry 2	3	(2,2)
			Qual. Analysis—Chem. 4	2	(0,4)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0,3)
	18.5			20.5	

JUNIOR YEAR

English 5	2	(2,0)	English 6	2	(2,0)
Calculus—Math. 7	3	(3.0)	Mechanical Engr.—M. E. 4	4	(3,2)
Mechanics—M. E. 1	3	(3,0)	Mechanics—M. E. 2	3	(3,0)
Design.—Drawing 17	1.5	(0.3)	Design.—Drawing 18	1.5	(0,3)
Organic Chemistry 7	3	(2,2)	Organic Chemistry 8	3	(2,2)
Physical Chemistry 11	3	(2,2)	Electro Chemistry 18	3	(2,2)
Quant. Analysis—Chem. 9	1	(0,2)	Quant. Analysis—Chem 10	1	(0,2)
Military Science 5	3.5	(2.3)	Military Science 6	3.5	(2,3)
	20			21	

SENIOR YEAR

Economics—Hist. 3	2	(2,0)	Sociology—Hist. 4	2	(2,0)
Mechanical Engr.—M. E. 11	4	(3,2)	Hydraulics—C. E. 18	2	(2,0)
Electrical Engr.—E. E. 7	3	(2,2)	Industrial Chemistry 24	2	(2,0)
Industrial Chemistry 23	2	(2,0)	Inorg. Chemistry 28	2	(2,0)
Inorg. Chemistry 27	2	(2,0)	Quant. Analysis—Chem. 30	4	(0,8)
Quant. Analysis-Chem. 29	3	(0,6)	Metallurgy—Chem. 22	2	(2,0)
Metallurgy—Chem. 21	2	(2,0)			
Military Science 7	3.5	(2,3)	Military Science 8	3.5	(2,3)
	21.5			17.5	

V.—CIVIL ENGINEERING

This course is intended to prepare young men for entrance upon professional practice in some of the many branches of civil engineering, and also to meet the needs of those who, having been engaged in engineering work without a course of instruction, desire to equip themselves for more successful competition with those who have had such instruction.

In connection with the technical studies, liberal training is given in English, history, economics, pure mathematics, and the physical sciences. The course will also be found to embrace a considerable amount of drawing, shop work, mechanical engineering, and mechanical laboratory practice, and a short course in electrical engineering.

The distinctive work pursued by students in this course includes the field and office work of surveying and leveling; topographic surveying and drafting; the location and construction of railroads and highways, and the bridges and other structures in connection therewith; involving investigation as to the strength of the materials of construction and the theories involved in the use thereof; masonry construction; foundations on land and under water; a particular study of highway engineering; municipal and sanitary engineering, including water-supply, sewerage and drainage; and a brief study of engineering law including contracts and specifications. Actual design, as well as analytic investigation, is given in all cases.

COURSE V.—CIVIL ENGINEERING

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 3	5	(5,0)	Mathematics 4	5	(5,0)
English 1	3	(3,0)	English 2	3	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Physics 1	3	(2,2)	Physics 2	3	(2,2)
Shop 1, 17	2	(0,4)	Shop 2, 18	2	(0,4)
Drawing 5, 9	2	(0,4)	Drawing 6, 10	2	(0,4)
Military Sicence 1	1.5	(0,3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SOPHOMORE YEAR

Analytics—Math. 5	4	(4,0)	Calculus—Math. 6	4	(4,0)
English 3	3	(3,0)	English 4	3	(3,0)
Chemistry 1	3	(2,2)	Chemistry 2	3	(2,2)
Physics 5, 7	4	(3,2)	Physics 6, 8	4	(3,2)
Surveying—C. E. 1	4	(2,4)	Surveying—C. E. 2	4	(2,4)
Descriptive Geom.—Draw. 13	1	(0,2)	Drawing 16	1	(0,2)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0,3)
	20.5			20.5	

JUNIOR YEAR

Calculus—Math. 7	3	(3,0)	Mechanical Engr.—M. E. 4	4	(3,2)
English 5	2	(2,0)	English 6	2	(2,0)
Mechanics—M. E. 3	3	(3,0)	Graphic Statics—C. E. 10	3	(3,0)
Geology 3	2	(2,0)	Str. Materials—C. E. 8	3	(3,0)
Topog. Survey.—C. E. 7	2	(0,4)	R. R. Location—C. E. 12	2	(0,4)
R. R. Curves—C. E. 5	3	(3,0)	Design.—C. E. 14	2	(0,4)
Shop 15	1.5	(0,3)	Astronomy—Physics 14	1	(1,0)
Military Science 5	3.5	(2,3)	Military Science 6	3.5	(2,3)
	20			20.5	

SENIOR YEAR

Economics—Hist. 3	2	(2,0)	Sociology—History 4	2	(2,0)
Masonry—C. E. 21	3	(3,0)	Water Supply—C. E. 24	3	(3,0)
Roads—C. E. 23	2	(2,0)	Sewerage—C. E. 26	3	(3,0)
Hydraulics—C. E. 17	2	(2,0)	Engr. Law—C. E. 28	1	(1,0)
Electrical Engr.—E. E. 7	3	(2,2)	Road Materials—C. E. 32	2	(0,4)
Mechanical Engr.—M. E. 9	4	(3,2)	Thesis—C. E. 34	1	(0,2)
Design.—C. E. 15	1	(0,2)	Design—C. E. 30	2	(0,4)
Military Science 7	3.5	(2,3)	Mechanical Engr.—M. E. 10	3	(3,0)
	20.5		Military Science 8	3.5	(2,3)
				20.5	

VI.—ELECTRICAL ENGINEERING

Electrical engineering is developing so rapidly and is being applied in such widely different fields that it is impossible for any college course to cover it adequately. There are, however, certain fundamental laws which underlie all the important applications of electricity. In the careful study of these laws and a few of the more fundamental applications, this course attempts to lay the foundation on which the student may rapidly build his professional career in any branch of electrical engineering.

The course includes the study of those subjects which form a necessary foundation for the study of electrical theory and practice; sufficient drawing and shop work to develop the co-ordination between mind and hand, and at the same time give the student some idea of the possibilities of engineering materials; and other subjects which broaden his intellectual growth. He is encouraged to take an interest in public affairs, to give time to more extensive and diversified reading, and to enter into various student activities.

COURSE VI.—ELECTRICAL ENIGNEERING

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 3	5	(5,0)	Mathematics 4	5	(5,0)
English 1	3	(3,0)	English 2	3	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Physics 1	3	(2,2)	Physics 2	3	(2,2)
Shop 1, 17	2	(0,4)	Shop 2, 18	2	(0,4)
Drawing 5, 9	2	(0,4)	Drawing 6, 10	2	(0,4)
Military Science 1	1.5	(0.3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SOPHOMORE YEAR

First Semester			Second Semester		
Analytics—Math. 5	4	(4,0)	Calculus—Math. 6	4	(4,0,
English 3	3	(3,0)	English 4	3	(3,0)
Chemistry 1	3	(2,2)	Chemistry 2	3	(2,2)
Physics 5, 7	4	(3,2)	Physics 6, 8	4	(3,2)
Surveying—C. E. 3	2	(1,2)	Surveying—C. E. 4	2	(1,2)
Shop 7, 21	2	(0,4)	Shop 8, 22	2	(0,4)
Descriptive Geom.—Draw. 13	1	(0,2)	Drawing 16	1	(0,2)
Military Science 3	1.5	(,3)	Military Science 4	1.5	(0,3)
	20.5			20.5	

JUNIOR YEAR

First Semester			Second Semester		
Calculus—Math. 7	3	(3,0)	Mechanical Engr.—M. E. 4	4	(3,02)
English 5	2	(2,0)	English 6	2	(2,0)
Mechanics—M. E. 1	3	(3,0)	Mechanics—M. E. 2	3	(3,0)
Electrical Egr. E. E. 1	4.5	(3,3)	Electrical Engr.—E. E. 2	4.5	(3,3)
Design—Drawing 17	1.5	(0.3)	Design—Drawing 18	1.5	(0,3)
Shop 13	2.5	(0.5)	Shop 14	1.5	(0,3)
Military Science 5	3.5	(2,3)	Military Science 6	3.5	(2,3)
	20			20	

SENIOR YEAR

First Semester			Second Semester		
Economics—History 3	2	(2,0)	Sociology—Hist. 4	2	(2,0)
Str. Materials—C. E. 19	3	(3.0)	Hydraulics—C. E. 18	2	(2,0)
Electrical Engr. E. E. 3	7	(5,4)	Electrical Engr.—E. E. 4	7.5	(5,5)
Mechanical Engr.—M. E. 7	4	(3,2)	Mechanical Engr.—M. E. 8	4	(3,2)
Design—M. E. 13	1	(0,2)	Design—E. E. 10	1	(0,2)
Military Science 7	3.5	(2,3)	Military Science 8	3.5	(2,3)
	20.5			20.5	

VII.—MECHANICAL ENGINEERING

The course in mechanical engineering is designed to give the graduate as broad a training as possible and at the same time to fit him for some specific type of work.

It embraces practically all forms of engineering which have for their object the application of the forces of nature to the accomplishment of the processes of industry. The course is designed to give an intimate knowledge of the materials used in engineering, the laws of mechanics, and the characteristics of various types of machinery.

The shop courses embrace wood work, forge work, foundry, and machine work. The purpose of this instruction is not to turn out skilled workmen but to train those faculties of mind which can best be reached through the work of the hand, and at the same time, give the student a clear knowledge of the characteristics and possibilities of the materials used in engineering.

Considerable time is given to the study of the laws of the physical sciences, in such subjects as physics, chemistry, mechanics, electricity and magnetism, and thermodynamics.

During the fourth year stress is laid on the application of the fundamental principles already covered so that the graduate may be able to design or manage those types of machines which ordinarily come under the supervision of the mechanical engineer.

The mechanical engineer should have a good liberal education, so in addition to the regular technical work comprehensive training is given in English, history, economics, civics, and related subjects.

COURSE VII.—MECHANICAL ENGINEERING

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 3	5	(5,0)	Mathematics 4	5	(5,0)
English 1	3	(3,0)	English 2	2	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Physics 1	3	(2,2)	Physics 2	3	(2,2)
Shop 1, 17	2	(0,4)	Shop 2, 18	2	(0,4)
Drawing 5, 9	2	(0,4)	Drawing 6, 10	2	(0,4)
Military Science 1	1.5	(0.3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SOPHOMORE YEAR

Analytics—Math. 5	4	(4,0)	Calculus—Math. 6	4	(4,0)
English 3	3	(3,0)	English 4	3	(3,0)
Chemistry 1	3	(2,2)	Chemistry 2	3	(2,2)
Physics 5, 7.	4	(3,2)	Physics 6, 8	4	(3,2)
Surveying—C. E. 3	2	(1,2)	Surveying—C. E. 4	2	(1,2)
Shop 7, 21	2	(0,4)	Shop 8, 22	2	(0,4)
Descriptive Geom.—Draw. 13	1	(0,2)	Drawing 16	1	(0 [illegible])
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0, [illegible]
	20.5			20.5	

JUNIOR YEAR

Calculus—Math. 7	3	(3,0)	Mechanical Engr.—M. E. 4	4	(3,2)
English 5	2	(2,0)	English 6	2	(2,0)
Mechanics—M. E. 1	3	(3,0)	Mechanics—M. E. 2	3	(3,0)
Electrical Engr. E. E. 1	4.5	(3,3)	Electrical Engr.—E. E. 2	4.5	(3,3)
Design—Drawing 17	1.5	(0,3)	Design—Drawing 18	1.5	(0,3)
Shop 13	2.5	(0,5)	Shop 14	1.5	(0,3)
Military Science 5	3.5	(2,3)	Military Science 6	3.5	(2,3)
	20			20	

SENIOR YEAR

Economics—Hist. 3	2	(2,0)	Sociology—Hist. 4	2	(2,0)
Str. Materials—C. E. 19	3	(3,0)	Hydraulics—C. E. 18	2	(2,0)
Mechanical Engr.—M. E. 5	7	(5,4)	Mechanical Engr.—M. E. 6	7.5	(5,5)
Electrical Engr. E. E. 5	4	(3,2)	Electrical Engr.—E. E. 6	4	(3,2)
Design—E. E. 9	1	(0,2)	Design—M. E. 14	1	(0,2)
Military Science 7	3.5	(2,3)	Military Science 8	3.5	(2,3)
	20.5			20	

VIII.—TEXTILE INDUSTRY

The course in Textile Industry is designed to give the student sound training, both theoretical and practical, in the sciences upon which manufacturing processes are based. The curriculum of the course recognizes that in a profession of so many aspects a broad general education, and a thorough knowledge of the underlying principles are necessary for its successful practice.

The first year of the course is the same as that of the other engineering courses offered. The study of textile subjects begins with the second year, and more time is given to these subjects in the Junior and Senior years. The practical work is carried on for the purpose of developing in the student habits of accurate observation, and some skill in manipulation, supplementing the theoretical work. In this work special consideration is given to economy of time, precision of results, and attention to details, as well as to methods of fundamental importance.

This course does not presume to fit one for an executive position in a mill, but the graduate is in possession of such information, and has acquired such knowledge and experience that he may look forward to a successful career provided he has the necessary energy, application, and tact, and a willingness to begin at the bottom.

COURSE VIII.—TEXTILE INDUSTRY

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 3	5	(5,0)	Mathematics 4	5	(5,0)
English 1	3	(3,0)	English 2	3	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Physics 1	3	(2,2)	Physics 2	3	(2,2)
Shop 1, 17	2	(0,4)	Shop 2, 18	2	(0,4)
Drawing 5, 9	2	(0,4)	Drawing 6, 10	2	(0,4)
Military Science 1	1.5	(0.3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SOPHOMORE YEAR

Analytics—Math. 5	4	(4.0)	Calculus—Math. 6	4	(4,0)
English 3	3	(3,0)	English 4	3	(3,0)
Chemistry 1	3	(2,2)	Chemistry 2	3	(2,2)
Surveying—C. E. 3	2	(1,2)	Surveying—C. E. 4	2	(1,2)
Descriptive Geom.—Drawing 3	1	(0,2)	Drawing 14	1	(0,2)
Pickers—Yarn Mfg. 1.	3	(2,2)	Cards and Drw Frames Yarn, Mfg 2	3	(2,2)
Fab. Construction—Tech. Fab. 1	2	(2,0)	Design—Tech. Fab 2	2	(2,0)
Weaving—Tech. Fab. 11	1	(0,2)	Loom Fixing—Tech. Fab. 12	1	(0,2)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0,3)
	20.5			20.5	

JUNIOR YEAR

Calculus—Math. 7	3	(3,0)	Mechanical Engineering 4	4	(3,2)
English 5	2	(2,0)	English 6	(2	(2,0)
Mechanics—M. E. 1	3	(3,0)	Mechanics—M. E. 2	3	(3,0)
Roving Frames—Yarn Mfg. 3	3	(2,2)	Spinning—Yarn Mfg. 4	3	(2,2)
Dobby Design—Tech. Fab. 3	1	(0,2)			
Fab. Analysis—Tech. Fab. 5	1	(0,2)	Fab. Analysis—Tech. Fab. 6	1	(0,2)
Weaving—Tech. Fab. 13	1	(0,2)	Weaving—Tech. Fab. 14	1	(0,2)
Applied Chem.—Textile Chem. 1	3	(2,2)	Org. Chem.—Text. Chem. 2	3	(2,2)
Military Science 4	3.5	(2,3)	Military Science 5	3.5	(2,3)
	20.5			20.5	

SENIOR YEAR

Economics—Hist. 3	2	(2,0)	Sociology—Hist. 4	2	(2,0)
Electrical Engineering 7	3	(2,0)	Combers—Yarn Mfg. 6	2	(1,2)
Mechanical Engineering 11	4	(3,2)	Mill Econom.—Yarn Mfg. 8	1	(1,0)
Spinning—Yarn Mfg. 5	3	(2,2)	Jacq. Design—Tech Fab. 8.	2	((0,4)
Designing and Prep. Tech. Fab. 7	2	(2,0)	Weave Methods—Tech, Fab. 10	3	(3,0)
			Weaving—Tech. Fab. 16	2	(0,4)
			Knitting—Tech, Fab. 18	1	(0,2)
Organic Chem.—Textile Chem. 3	3	(2,2)	Dyeing—Text. Chem. 4	2	(0,4)
Military Science 7	3.5	(2,3)	Military Science 8	3.5	(2,3)
	20.5			18.5	

VIII(a).—INDUSTRIAL EDUCATION

By the enactment of the Smith-Hughes law for the promotion of vocational education, Congress has provided funds for encouraging and assisting in the development of instruction throughout the country in agriculture, home economics, and trades and industries.

This course has for its purpose the preparation of young men for positions of usefulness and responsibility in the trades and industries of the state. The course includes instruction in the fundamental principles of education, of engineering, and of the textile industry.

The prime purpose of the course is to prepare for positions as teachers of trade and industrial subjects, or as "service man" in a manufacturing establishment. As the textile industry is the dominant one in the state that industry is given special prominence. The course is essentially a combination of instruction in the textile industry and the training of industrial teachers.

COURSE VIII(a).—INDUSTRIAL EDUCATION

FRESHMAN and SOPHOMORE subjects same as Course VIII.

JUNIOR YEAR

First Semester			Second Semester		
Calculus—Math. 7	3	(3,0)	Mechanical Engineering 4	4	(3,2)
English 5		(2,0)	English 6	2	(2,0)
Mechanics—M. E. 3	3	(3,0)	Education 1	3	(3,0)
Roving Frames—Yarn Mfg. 3	3	(2,2)	Spinning—Yarn Mfg. 4	3	(2,2)
Dobby Design—Tech. Fab. 3	1	(0,2)			
Fab. Analysis—Tech. Fab. 5	1	(0,2)	Fab. Analysis—Tech. Fab. 6	1	(0,2)
Weaving—Tech. Fab. 13	1	(0,2)	Weaving—Tech. Fab. 14	1	(0,2)
Applied Chemistry—Text. Chem. 1	3	(2,2)	Org. Chem.—Text. Chem. 2	3	(2,2)
Military Science 4	3.5	(2,3)	Military Science 5	3.5	(2,3)
	20.5			20.5	

SENIOR YEAR

First Semester			Second Semester		
Economics—Hist. 3	2	(2,0)	Sociology—Hist. 4	2	(2,0)
Electrical Engineering 7	3	(2,2)	Combers—Yarn Mfg. 6	2	(1,2)
Educational Phychol.—Ed. 5	3	(2,2)	Mill Econom.—Yarn Mfg. 8	1	(1,0)
Prin. of Teach.—Ed. 7	4	(3,2)	Jacq. Design—Tech. Fab. 8	2	(0,4)
Practice Teaching	4	( )	Weave Methods—Tech. Fab. 10	3	(3,0)
			Weaving—Tech. Fab. 16	2	(0,4)
			Knitting—Tech. Fab. 18	1	(0,2)
			Dyeing—Text. Chem. 4	2	(0,4)
Military Science 7	3.5	(2,3)	Military Science 8	3.5	(2,3)
	19.5			18.5	

COURSE IX.—SCIENCE

This course is designed to give a broad, general education in science rather than prepare for any special branch such as agriculture or engineering.

A person interested in teaching science in the high school will find this an excellent course. The student may elect a sufficient number of subjects in education to secure a professional teachers' certificate upon graduation.

The course is also valuable as a foundation for a business career.

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 1	3	(3,0)	Mathematics 2	3	(3,0)
English 1	3	(3,0)	English 2	3	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Chemistry 1	4	(3,2)	Chemistry 2	4	(3,2)
Biology—Botany 1	3	(2,2)	Biology—Botany 2	3	(2,2)
Drawing 1 and Shop 5	2	(0,4)	Drawing 8, and Shop 6	2	(0,4)
Military Science 1	1.5	(0.3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SOPHOMORE YEAR

English 3	3	(3,0)	English 4	3	(3,0)
Physics 3	3	(2,2)	Physics 4	3	(2,2)
Geology 1	3	(3,0)	Geology 2	1	(0,2)
Morphology—Botany 5	3	(2,2)	Zoology 2	4	(3,2)
Modern Language	3	(3,0)	Modern Language	3	(3,0)
Electives	4	( )	Electives	4	( )
Military Science 3	1.5	(0,3)	Military Sicence 4	1.5	(0,3)
	20.5			19.5	

SOPHOMORE ELECTIVE

Analytics—Math. 5	4	(4,0)	Calculus—Math 6	4	(4,0)
Organic Chemistry 7	3	(2,2)	Organic Chemistry 8	3	(2,2)
Quant. Analysis 9	1	(0,2)	Quant. Analysis 10	1	(0,2)

JUNIOR YEAR

English 5	2	(2,0)	English 6	2	(2,0)
Physics	4	( )	Physics	4	( )
Chemistry..	3	( )	Chemistry	3	( )
Psychology—Ed. 3	2	(2,0)	Psychology—Ed. 4	2	(2,0)
Military Science 5	3.5	(2.3)	Military Science 6	3.5	(2,3)
Electives	4-6		Electives	4-6	( )

SENIOR YEAR

English 7	2	(2,0)	English 8	2	(2,0)
Economics—Hist. 3	2	(2,0)	Sociology—Hist. 4	2	(2,0)
Military Science 7	3.5	(2,3)	Military Science 8	3.5	(2,3)
Electives	11-12		Electives	11-12	

In addition to the prescribed work in the junior and senior years, each student is required to select from the groups of elective subjects a sufficient amount of work to give a total of not less than 18 and not more than 20 credit hours each semester.

Each student is required to elect at least 12 semester hours in each of two of the following groups.

It may be possible with the consent of the head of the department concerned to elect courses outside of the ones listed in the following groups of courses.

In order to secure credit for a course, the entire course must be satisfactorily completed. No course may be elected unless all the prerequisite work has been completed.

ELECTIVES.

Group I

First Semester			Second Semester		
Calculus—Math. 7	3	(3,0)	Meteorology—Geol. 10	2	(2,0)
Physics	4	( )	Physics	4	( )
Mineralogy—Geol. 7	3	(2,2)	Mineralogy 8—Geol. 8	3	(2,2)
Chemestry	4	( )	Chemistry	4	( )
Bacteriology 1	4	(2,4)	Bacteriology 4	4	(2,4)
Forestry—Botany 3	2	(2,0)	Mechanical Engr.—M. E. 4	4	(3,2)
Electrical Engr.E. E. 1	4.5	(3,3)	Electrical Engr.—E. E. 2	4.5	(3,3)
Mechanics—M. E. 1	3	(3,0)	Mechanics—M. E. 2	3	(3,0)
Surveying—C. E. 1	4	(2,4)	Surveying—C. E. 2	4	(2,4)
Industrial Arts—Shop 9	1	(0,2)	Plant Phys. Botany 6	4	(2,4)
Industrial Arts—Shop 23	1	(0,2)	Industrial Arts—Shop 24	1	(0,2)
Industrial Arts—Shop 25	1	(0,2)	Industrial Arts—Shop 26	1	(0,2)
Genetics—Agronomy 5	3	(2,2)			
Entomolomy 3	3	(2,2)			
Drawing	1	(0,2)	Drawing	1	(0,2)

Group II.

Marketing—Agronomy 17	3	(2,2)	Economics	3	( )
Business Law—Eng. 11	2	(2,0)	F. Management-Agron. 16	(3	(2,2)
Farm Management Agronomy 3	3	(2,2)	F. Equipment-Agron. 14	3	(2,2)
Rural Sociology 1	3	(3,0)	Rural Sociology 2	3	(2,2)
Bible 1	3	(3,0)			

Group III

Spanish 1	3	(3,0)	Spanish 2	3	(3,0)
Spanish 3	3	(3,0)	Spanish 4	3	(3,0)
German 1	3	(3,0)	German 2	3	(3,0)
German 3	3	(3,0)	German 4	3	(3,0)
English	3	(3,0)	English	3	(3,0)

Group IV

Introduction to Ed'n. 1	3	(3,0)	Special Methods in Teaching High School Subjects 10	4	(3,2)
Educational Psychology 5	3	(2,2)	Practice Teaching 14	3	
Principles of Teaching 7	4	(3,2)	Pub. School Adminis's. 16	3	(8,0)
Secondary Education 15	3	(3,0)	Tests and Measurements 18	3	(6.0)
School Management 19	3	(3,0)			
Practical Teaching 13	3	( )			

COURSE XIII.—PRE-MEDICAL

In order to meet the minimum requirements for entrance into a standard medical college it is necessary that the student graduate from high school with not less than fifteen standard units, and have to his credit two years of college work. This course meets the requirements as to biology, chemistry, physics, language and other subjects. If it is desired to spend more than two year in preparation for the study of medicine the student is advised to take the Science Course.

FIRST YEAR

First Semester	Credits		Second Semester		
Machematics 1	3	(3,0)	Mathematics 1	3	(3,0)
English 1	3	(3,0)	English 2	3	(3,0)
Biology—Botany 1	3	(2,2)	Biology—Botany 2	3	(2,2)
Chemistry 1	4	(3,2)	Chemistry 2	4	(3,2)
Language	3	(3,0)	Language	3	(3,0)
Drawing 1	1	(0,2)	Drawing 8	1	(0,2)
Drill 1	1.5	(0,3)	Drill 1	1.5	(0,3)

SECOND YEAR

Chemistry 7	3	(2,2)	Chemistry 8	3	(2,2)
Psychology—Ed. 3	2	(2,0)	Phychology—Ed. 4	2	(2,0)
Physics 4	4	( )	Physics	4	( )
English 3	3	(3,0)	English 4	3	(3,0)
Language	3	(3,0)	Language	3	(3,0)
Botany 5	3	(2,2)	Zoology 2	4	(3,2)
Drill 2	1.5	(0.3)	Drill	1.5	(0,3)

COURSE XII.—TWO-YEAR AGRICULTURE

The purpose of this course is three fold. To offer an opportunity to young men who have not the time nor the inclination to spend more than two years in college. To give in two years many of the advantages of a college training, a general education and a vocation. To inspire men that they will see the great desirability of taking a four year course.

The course will not only teach better farming methods and the business of farming, but subjects such as English, mathematics, etc. will be included.

FIRST YEAR

First Semester			Second Semester		
Farm Machinery—Agronomy 101	4	(3,2)	Crops—Agron. 102	4	(3,2)
Animal Husbandry 101	4	(3,2)	Dairy Farm—Dairy 102	4	(3,2)
English 101	4	(4,0)	English 102	4	(4,0)
Mathematics 101	4	(4,0)	Mathematics 102	4	(4,0)
Gen. Science 101	3	(3,0)	Gen. Science 102	3	(3,0)
Military Science 1	1.5	(0,3)	Military Science 2	1.5	(0,3)
	20.5			20.5	

SECOND YEAR

Crops—Agronomy 103	4	(3,2)	Crops—Agron. 104	4	(3,2)
Horticulture 101	3	(2,2)	Horticulture 102	3	(2,2)
Entomology 101	3	(2,2)	Plant Diseases—Botany 102	3	(2,2)
English 103	3	(3,0)	English 104	3	(3,0)
Veterinary Science 101	3	(2,2)	Cotton Classing—Yarn Mfg. 106	1	(0,2)
Farm Management—Agronomy 105	3	(2,2)	Rural Sociology 100	3	(2,2)
Shop 101	1	(0,2)	Shop 102	1	(0,2)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0,3)
	21.5			19.5	

COURSE XI—TWO-YEAR TEXTILE

To meet the demands of Southern conditions for a class of young men trained in the finer details of cotton manufacture, a special two-year course has been arranged to accommodate a limited number of students who may not be in a position to take the four-year textile course.

This course includes mathematics, English, free-hand and mechanical drawing, carding, spinning, weaving and designing, is thoroughly practical, and allows the greater portion of the student's time to be devoted to the study of textile subjects.

To pursue his course successfully the student must be well grounded in arithmetic, and should be capable of expressing his thoughts clearly in writing. The student seeking admission to this course must present himself at the College during the regular entrance examination period and satisfy his instructors that he is prepared to undertake the work. No student will be admitted after that time. Students must be at least 18 years of age, and must have had at least one year's experience in some cotton mill. Students who have failed in the regular degree courses will not be allowed to change to this course.

FIRST YEAR

First Semester			Second Semester		
English 101	4	(4,0)	English 102	4	(4,0)
Card. and Spin.—Yarn Mfg. 101	4	(2,4)	Card. and Spin.—Yarn Mfg. 102	4	(2.4)
Applied Math.—Yarn Mfg. 105	4	(4,0)	Gen. Science-Text, Chem. 104	4	(4,0)
Designing—Tech. Fab. 101.	2	(2,0)	Designing—Tech. Fab. 102	2	(2,0)
Weaving—Tech. Fab. 103	2	(0,4)	Weaving—Tech. Fab. 104	2	(0,4)
Drawing 5, 9	2	(0,4)	Drawing 6, 10	2	(0,4)
Military Science 1	1.5	(0.3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SECOND YEAR

English 103	3	(3,0)	English 104	3	(3,0)
Chemistry 1	3	(2,2)	Chemistry 2	3	(2,2)
Card and Spin.—Yarn Mfg. 103	4	(2,4)	Card. and Spin.—Yarn Mfg. 104	4	(2,4)
Fab. Analysis—Tech. Fab. 105	3	(3,0)	Jacq. Design-Tech. F. 106	3	(3,0)
Weaving—Tech. Fab. 107	2	(0,4)	Weaving—Tech. Fab. 108	2	(0,4)
Dyeing—Text. Chem. 101	2	(0,4)	Dyeing—Text. Chem. 102	2	(0,4)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0.3)
	18.5			18.5	

This course is subject to change, depending upon the preparation and experience of the students.

SUMMER SCHOOL

Courses For Teachers. The course of instruction offered at Clemson College, June 11 to July 21, affords to the teachers of the state who enroll an opportunity to prepare for the State Teachers' Examinations ,to renew certificates, to qualify for professional certificates and to improve their professional training. Courses are planned for primary, elementary, and high school teachers, teachers of special subject, superintendents, and other school officials.

Course in Cotton Grading. The course in cotton grading will begin promptly on June 11th. It is essential that all who desire to take this course be at the College on the opening day.

The length of the full course will be approximately three weeks.

Course for Corn Club Boys. The prize winning Corn Club Boys will come to the College for a short course in practical agriculture specially designed for boys. Boys other than prize winners are welcome to attend these courses by paying the regular fee.

Courses for Removal of Entrance Conditions. Certain courses will be offered to boys for the removal of entrance conditions. The conditions may be due to failures in high school subjects or the inability of the high school to make the required number of units.

College Make-up Courses. Courses will be offered to college students who have "back work" which they are permitted to remove. These courses will be of assistance to students who are irregular and who need to remove failures before entering the next higher class. By attending the summer school certain students may save the expense of an extra year in college. Courses will be offered in Freshman and Sophomore subjects.

For further information write to

The Registrar, Clemson College, S. C.

Description of Subjects Taught in the Various Courses

For convenience of reference all subjects are grouped under general heads. In the description of subjects, the first line gives (a) general classification and number, (b) specific title, (c) the semester taught, and (d) the names of the instructors. The second line gives the class and course in which the subject occurs. The figures in parentheses indicate the number of hours a week, theory and practice, respectively devoted to the subject.

Odd numbers are assigned to subjects taught during the first semester and even numbers to those taught during the second semester. A subject taught throughout the session is given both an odd and an even number.

AGRONOMY

Assistant Professor Howell

Assistant Professor McAlister

Professor Blackwell

Assistant Professor Collings

AGRONOMY 1.—Cotton and Corn—Semester 1. (Collings)
Sophmore I: (3 and 2)

A detailed course dealing with the history, origin, botanical characteristics, physiology, ecology, varieties, breeding, soil adaptations, fertilizer requirements, and the cultural methods of cotton and corn. Laboratory largely devoted to field studies of these crops. Recitations, assigned reading, problems.

Text-books: "Field Crops for the Cotton Belt."—Morgan. "The Corn Crops."—Montgomery.

AGRONOMY 2—Farm Machinery—Semester 2. ...(McAlister)
Somphmore I: (3 and 2)

A study of the construction, adjustment and operation of the latest improved machinery for the farm including internal combustion engines. Laboratory work consists of a study of the various machines together with rope work, belt lacing and other farm practices.

Text-books: "Equipment for the Farm and Farmstead."—Ramsower.

AGRONOMY 3.—Farm Management—Semester 1. (Howell)
Junior I: (2 and 2)

The business of farming. A survey of the business aspects of farm operations. The relation of capital, choice of land, farm equipment, farm layout, cropping systems, specific agricultural industries. The correlation and application of problems. Recitations, assigned, readings, problems, demonstrations.

Text-book: "Farm Management".—Warren.

AGRONOMY 4.—Soils—Semester 2. (Collings)
Junior I: (3 and 2)

A fundamental course in soils. It is intended to cover the basic principles of soil physics, soil fertility, soil biology, and soil management. It deals with the soil as a reservoir for water, as a medium for root development, as a source of nutrients, and as a home of organisms.

A laboratory course is given which deals almost exclusively with the physical properties of the soil.

Text-book: "The Nature and Properties of Soils."—Lyon, Buckman.

AGRONOMY 5.—Genetics—Semester 1. (Blackwell)
Senior I, IX: Elective: (2 and 2)

A course dealing with the laws of heredity and equally applicable to plants or animals.

Text-book: "Genetics"—Walter.

AGRONOMY 6—Plant Breeding—Semester 2. (Blackwell)
Seniors I. Elective: (2 and 2)
Prerequisite: Agronomy 5.

A study of methods of improving field crops by breeding. All of the common field crops are included and especial emphasis is placed on cotton, corn, tobacco, small grains and forage plants.

Text-book: "Breeding Crop Plants"—Hays and Garber.

AGRONOMY 7—Forage Crops.—Semester 1. (Collings)
Senior I: (2 and 2)

A course dealing with the characteristics of the various forage crops, with special emphasis on those grown in this state. These crops are studied with special reference to their adaptations, growing, harvesting composition, value and uses, and also with reference to their place in our cropping system.

Text-book: "Forage Crops and Their Culture"—Piper.

AGRONOMY 9, 10—Crops—Semester 1 and 2. (Blackwell)
Senior I. Elective: (2 and 2)
Prerequisite: Agronomy 1, 2, 3, and 4.

And advanced course in crops dealing with the more important cash crops and small grain crops of the southeastern part of the U. S.

Text-book: "The Small Grains"—Carleton. Other books and bulletins will be used as references.

AGRONOMY 12—Fertility and Fertilizers—Semester 2. (Collings)
Senior I: (2 and 2)
Prerequisite: Agronomy 4.

A course dealing with the history and development of theories of soil fertility in their relation to present day problems in soil fertility. A study is made of the sources, composition, value, and uses of fertilizers and manures and theories of soil fertility.

Text-book: "Soil Fertility and Permanent Agriculture"—Hopkins. "Manures and Fertilizers"—Wheeler.

AGRONOMY 13—Agricultural Surveying and Drainage—Semester 1. (McAlister)
Seniors I. Elective: (2 and 2)

Surveying small areas with tape, level and rod, computing areas, topographic mapping. Design and study of drainage systems. Prevention of soil erosion with special emphasis on terracing.

Text-book: "Agricultural Surveying and Drainage"—Scoates.

AGRONOMY 14—Farm and Home Equipment—Semester 2. (McAlister)

Senior I. Elective: (2 and 2)

Lectures and laboratory exercises on the planning and arrangement of farm buildings. Special study of heating, lighting, water supply and sewerage disposal systems for the farm homes.

AGRONOMY 15.—Farm Shop—Semester 1. (McAlister)

Senior I. Elective: (1 and 2)

This course is designed especially for Agricultural Education seniors who are prospective teachers of this subject in high schools. Special emphasis is placed on farm wood work and how to make simple repairs.

AGRONOMY 16.—Farm Management—Semester 2. (Howell)

Senior I. Elective : (2 and 2)

Prerequisite: Agronomy 3.

This is a course in which special problems with field crops are considered from the business standpoint. Calendar of operations, Cost of production, Analysis of farm businesses, and profits are given special attention.

Text-book: "Farm Management"—Adams.

AGRONOMY 17.—Marketing—Semester 1. (Howell)

Senior I. Elective: (2 and 2)

A study of the fundamental principles that apply to the marketing of Agricultural products. Special attention is given to assembling, grading, transportation, storage, financing, and co-operative marketing of the important farm products in this state.

Text-book: "Marketing Agricultural Products"—Hibbard.

AGRONOMY 101.—Elementary ...Farm Machinery—Semester 1. (McAlister)

Two-Year Agr. XII: (3 and 2)

A study of the common farm machines, their construction, adjustment and operation, including farm gas engines and tractors.

Text-book: "Equipment for the Farm and Farmstead"—Ramsower.

AGRONOMY 102.—Crops—Semester 2. (Howell)

Two-Year Agr. XII: (3 and 2)

A course dealing with the characteristics of corn, small grains, and forage crops, with special emphasis on those grown in this state. These crops are studied with special reference to their adaptation, growing, harvesting, composition, value and use and also with reference to their place in the cropping system.

Text-book: "Field Crops for the Cotton Belt"—Morgan.

AGRONOMY 103, 104—Crops—Semester 1 and 2. (Howell)
Two-Year Agr. XII: (3 and 2)

A general elementary course in Agronomy for two year students. The course will deal with the important crops of this region including a study of their cultivation, soil adaptation, fertilizer requirements, and the latest machinery in their production and handling.

Text-book: "Field crops for the Cotton Belt"—Morgan.

AGRONOMY 105.—Farm Management—Semester 1. (Howell)
Two-Year Agr. XII: (2 and 2)

This course deals with the business aspects of farm operations. Farm bookkeeping and cost accounting constitute an important part of the course. In a practical way the considerations of size of farm capital, choice of land, farm equipment, farm layout, cropping systems, marketing and labor income will also be dealt with.

Text-book:—"Farm Management"—Warren.

Division Rooms and Equipment.

The Division of Agronomy occupies six rooms in Agricultural Hall and the large flat building below the Dairy Building, where the farm machinery is stored and where farm machinery work is given.

The Division offices are all on the second floor of the Agricultural Hall. The lecture room and farm crops laboratory are also on this floor. The farm crops laboratory is well supplied with equiqment and material for teaching the characteristics of the various crops and for a study of market classes and grades of the grain crops. Much of our laboratory work is conducted in the fields with the growing crops.

The soils laboratory is located in room No. 1, in the basement of Agricultural Hall, and is well supplied with modern equipment for teaching soil physics

The farm machinery laboratory work is given in the large one story building, known as Farm Machinery Hall. This building has a concrete floor and is well equipped with the latest and best machinery, tractors, gas engines, farm lighting plants, and land drainage equipment.

ANIMAL HUSBANDRY

Professor Starkey

Associate Professor Morgan

ANIMAL HUSBANDRY 2—Types, Breeds, Market Classes and Grades of Farm Animals—Semester 2. (Morgan)
Sophomore I. (3 and 2)

This course is designed to give the student a knowledge of the characteristics and use of the various types of farm animals, the history, methods of improvement, and characteristics of the leading breeds; market demands and market classification of live stock.

Text-book: "Types and Market Classes of Live Stock"—Vaughan. "Types and Breeds of Farm Animals"—Plumb.

ANIMAL HUSBANDRY 3—Principles of Feeding—Semester 1. (Morgan)

Junior I. Elective: (2 and 2)

A study of the composition of feeds, use of feeds, feed requirements and calculation of balanced rations for farm animals; classification and value of feedstuffs.

Text-books: "Feeds and Feeding"—Henry and Morrison. "Principles of Feeding Farm Animals"—Bull.

ANIMAL HUSBANDRY 4—Animal Breeding—Semester 2. (Morgan)

Senior I. Elective: (2 and 2)

Prerequisite: Animal Husbandry 2 and Genetics.

This course is an advanced study in breeding which includes the practical application of the principles of genetics to the breeding of farm animals. The course includes a discussion of the subjects of reproduction, variation, heredity selection, line breeding inbreeding cross breeding, grading and other subjects correlated with the breeding and improvement of farm animals.

Text-book: "The Breeding of Animals."—Mumford.

ANIMAL HUSBANDRY 5—Feeds and Feeding—Semester 1. (Starkey)

Senior I. Elective: (2 and 2)

Prerequisite: Animal Husbandry 3.

A detailed study of the composition, digestibility, use and value of different feedstuffs; an advanced study of digestion, absorption, metabolism, and functions of food nutrients; feed requirements and feeding standards.

Text-book: "Feeds and Feeding"—Henry and Morrison.

ANIMAL HUSBANDRY 6—Beef Production—Semester 2. (Starkey and Morgan).

Senior I. Elective: (2 and 2)

Prerequisite: Animal Hunbandry 2 and 3.

A discussion of the general care and management of beef cattle, including a careful study of feeding and marketing methods. Text-book supplemented by study of station bulletins.

Text-book: "Beef Production"—Mumford.

ANIMAL HUSBANDRY 7—Animal Production—Horses, Mules and Sheep)—Semester 1. (Morgan).

Senior 1. Elective: (2 and 2).

Pre-requisite: Animal Husbandry 2 and 3.

This is a course in the breeding, feeding, care and management of horses and mules and sheep. The course is divided into two distinct units, horse and mule production and sheep production.

Text-books: "Productive Horse Husbandry"—Gray. "Productive Sheep Husbandry"—Coffey.

ANIMAL HUSBANDRY 8—Pork Production—Semester 2. (Starkey and Morgan.)

Senior I. Elective: (2 and 2)

Prerequisite: Animal Hunbandry 2 and 3.

The breeding, feeding and management of commercial and purebred breeding herds. A careful study of approved feeding and breeding methods.

Text-book: "Pork Production"—Smith.

ANIMAL HUSBANDRY 9—Advanced Stock Judging—Semester 1. (Morgan).

Senior I. Elective: (To be determined)

Prerequisite: Animal Husbandry 2.

An advanced course in the judging of breeding and fatstock. Students taking this course will be required to take trips to leading livestock farms and to attend fairs for the purpose of judging and inspection.

Text-book: "Judging Farm Animals"—Plumb.

ANIMAL HUSBANDRY 101—Elements of Animal Husbandry—Semester 1. (Morgan.)

Two-Year Agr. XII: (3 and 2.)

A practical study of the types and breeds of live stock and the judging of same; also a study of the principles of breeding and feeding live stock.

Text-book: "A Study of Farm Animals"—Plumb.

ARCHITECTURE

Professor Lee

Assistant Prof. Lange

ARCHITECTURE 2—Freehand Drawing—Semester 2. (Harris)

Continuation of Drawing 5, sketching of models, in outline of the imagination.

Freshman II (0 and 2)

Prerequisite Drawing 5

ARCHITECTURE 4—Elements of Architecture—Semester 2. (Lange)

Freshman II. (0 and 2)

Prerequisites: Drawing 3, 11.

A study of classic proportions and design with details of "The Orders" and their application.

Text-book: "The Five Orders of Architecture" from the system of Vignola as arranged by Pierre Esquiez.

ARCHITECTURE 6—Descriptive Geometry—Semester 2. (Lange)

Freshman II: (0 and 4)

Prerequisites: Drawing 3, 11.

The fundamental problems in descriptive geometry are studied and applied to the solution of problems in architecture. Also problems in the casting of conventional shadows of architectural forms and the theory and practice of architectural perspective are solved.

Text-book: Lange's "Shades and Shadows."

Reference books: McGoodwin's "Shades and Shadows"; Lubschez "Perspective."

ARCHITECTURE 7, 8—History of Architecture—Semesters 1 and 2. (Lange)

Sophomore II: (3 and 0)

Study of historic styles and monuments of architecture, classic, mediaeval, and Renaissance. This subject is given by illustrated lectures and text-book. The student is required to do research in the library and to make sketches.

Text-book: Hamlin's "History of Architecture."

ARCHITECTURE 9, 10—Cast Drawing—Semesters 1 and 2. (Lange)

Sophomore II: (0 and 2)

Prequisite: Architecture 2.

Thorough drill in drawing groups of simple casts, pencil and charcoal rendering. Freehand perspective and accurate sketching. Brief study of anatomy. Sketching from life.

ARCHITECTURE 11, 12—Architectural Design—Semesters 1 and 2. (Lange)

Sophomore II: (0 and 14)

Prerequisites: Architecture 2, 4, 6.

A series of simple problems in design, applying classic proportions to modern buildings; rendering in water color and other mediums; criticisms. Architectural library reference books and plates.

ARCHITECTURE 13, 14—Cast Drawing—Semesters 1 and 2. (Lange)

Junior II: (0 and 2)

Prerequisite: Architecture 9, 10.

Advanced work in the drawing of antique sculpture and from life. Any medium may be used in which the student cares to work such as charcoal, conte, pastel, etc.

ARCHITECTURE 15, 16.—Architectural Design—Semesters 1 and 2. (Lang)

Junior II: (0 and 11)

Prerequisite: Architecture 11, 12.

A series of problems in architectural design. Composition and planning. Sketch problems. Architectural library reference books and plates.

ARCHITECTURE 17, 18.—Building Construction—Semesters 1 and 2. (Lee)

Junior II: (2 and 0)

Prerequisite: Mathematics 5, 6.

Carpentry; study of building materials, their uses and forms; carpenter's, plaster s and painter's work, details of frame construction, hardware, estimates and specifications; problems in calculation.

Text-books: Kidder's "Building Construction and Superintendence," Part II; Kidder's "Architects' and Builders' Pocket Book."

ARCHITECTURE 19, 20—Architectural Design—Semesters 1 and 2. (Lange)

Senior II. (0 and 11)

Prerequisite: Architecture 16, 17.

Advanced problems in architectural design. Composition, planning, etc., worked up in detail. Eight and ten hour sketch problems. Architectural library books and plates as reference.

ARCHITECTURE 21, 22.—Structural Design—Semesters 1 and 2. (Lee)

Senior II: (0 and 6)

Prerequisite: Architecture 17, 18.

Preparation of complete working drawing and specifications for frame and masonry buildings, detail drawings of the construction with necessary calculations. Steel and reinforced concrete design. Blue printing.

Text-book: Architectural library reference books and plates. Kidder's "Architects' and Builders' Pocket Book."

ARCHITECTURE 23, 24—Building Construction—Semester 1 and 2. (Lee)

Senior II. (5 and 0)

Prerequisite: Architecture 17, 18.

Masonry; study of foundations, cement, lime, mortars, stone, brick, terra-cotta, details of masonry construction, fireproofing of buildings, reinforced concrete and steel construction, estimates, specifications, superintendence, problems in calculation.

Text-books: Kidder's "Building Construction and Superintendence." Part I; Kidder's "Architects' and Builders' Pocket Book."

ARCHITECTURE 25, 26—Heat and Sanitation—Semester 1 and 2. (Lee)

Senior II: Semester 1 (1 and 0) Semester 2 (2 and 0)

Study of the various systems of heating and ventilating of buildings, together with apparatus used in each, such as boilers, fans, etc.

Plumbing of buildings, including water and sewerage.

Text-book: Hoffman's "Handbook for Heating and Ventilating Engineers"; Instructor's notes.

BOTANY AND BACTERIOLOGY

Professor Barre

Associate Professor Aull

Associate Professor Rosenkrans

Instructor Deuber

BOTANY 1, 2—Biology—Semesters (1 and 2)—(Deuber)

Freshman I, III, IX, XIII: (2 and 2)

The structure and functions of the various parts of the higher seed plants, and the broad principles of metabolism, growth, and reproduction are first taken up in detail, followed by a study of the lower organisms.

The student is made familiar with the application of biological laws; and descriptions, life histories and the adaptation of representative organisms are considered. The practical work will consist of laboratory and field studies illustrating the more important phases of the theoretical work.

Text-book: "Botany with Agricultural Application."—Martin.

BOTANY 3—Elements of Forestry—Semester 1. (Rosenkrans)

Sophomore I, IX: (2 and 0)

A lecture course dealing with the general principles of forestry, together with the practical methods applied in lumbering, forest propagation, and conservation.

Text-book: "Elements of Forestry."—Moon and Brown.

BOTANY 5—Morphology of the Higher Plants—Semester 1 (Rosenkrans and Deuber)

Sophomore I, IX, XIII: (2 and 2)

This course considers the general form and structure of the higher plants, and the organs and tissues which compose them. It also establishes the relationships of the various organs. A study is made of the development of the more complex plants from the simpler ones.

Text-book: "Text Book of Botany," Vol 1 Part I—Coulter, Barnes, and Cowles.

BOTANY 6—Plant Physiology—Semester 2. (Rosenkrans)
Junior I, IX, Elective: (2 and 4)

A study of the structure and functions of plants, the object being to teach the student how plants live and grow and why they are dependent on certain physical factors as light, water, air, etc.

Text-book: "Text Book of Botany," Vol. 1. Part II—Coulter Barnes and Cowles.

BOTANY 8—Plant Pathology—Semester 2—(Rosenkrans)
Senior I, IX, Elective: (2 and 2). Pre-requisite: Botany 4.

A systematic study of fungi with special reference to species causing diseases of economic plants. The students are taught to recognize the more common diseases, particularly in the early stages, and the whole question of prevention and practicable remedies is fully discussed. Methods of isolating, artifically cultivating, and inoculating with disease-causing organisms will be considered.

Text-book: "Fungous Diseases of Plants."—Duggar.

BACTERIOLOGY 1—General Bacteriology—Semester 1. (Aull)
Junior I; Senior III, IX: (2 and 4)

This course is designed to give the student a clear working knowledge of the bacteria, yeasts, and molds. A detailed study is made of the morphology and physiology of bacteria in relation to man and animals, and to the arts and sciences. The principal bacterial diseases of man are studied and means of control discussed.

In the laboratory bacteria are studied in their relation to food, heat, light, and disinfectants, and their relation and importance to agriculture is stressed. Several forms are studied in detail. This study consists of isolating, growing them upon the various media, staining and determining the organism. Particular attention is paid to types found in water, soil, and milk.

Text-book: Buchanan's "Bacteriology," Revised edition supplemented, by lectures, bulletins and parallel readings.

BACTERIOLOGY 2—Dairy Bacteriology—Semester 2. (Aull)
Senior I, Elective: (2 and 4)
Prerequisite: Bacteriology 1.

This course is for students who major in Dairying. The bacteria concerned in the production of milk are emphasized. In the laboratory a careful study of the conditions around the barn and dairy is carried out. Analyses are made of milk, cream, butter, and ice cream. As far as possible, all the various bacteria found in milk products are isolated and studied in detail. The students prepare their own culture media and stains, and are thus enabled to get a good foundation for future work in bacteriology.

Text-book: Heinemann—"Milk."

BACTERIOLOGY 4—Sanitary Bacteriology—Semester 2. (Aull)
Senior III: (2 and 4)
Prerequisite: Bacteriology 1.

This course is designed to meet the needs of those students who specialize in chemistry. A study is made of the location and protection of water supplies, the purification of water, the disposal and purification of sewage, and the isolation of bacteria, particularly pathogenic forms in water.

In the laboratory the students prepare their own media and stains. Bacteriological examinations of water, and sewage are made and a detailed study of the forms found in water and sewage carried out. A careful study is also made of various disinfectants in water purification.

Text-books: Prescott and Winslow's "Elements of Water Bacteriology," and Hazen's "Clean Water and How to Get It," supplemented by lectures and technical papers.

BOTANY 102—Plant Diseases—Semester 2. (Rosenkrans)
Two-Year Agr. XII: (2 and 2).

This course will be devoted to the study of the diseases of farm crops, and methods for control and prevention will be considered. This includes directions for the preparation and application of the more common spray mixtures. Members of the class will be supplied with material, both fresh and preserved, for study.

Division Rooms and Equipment

The laboratories and class rooms are located on the first floor of the Agricultural Hall. They contain a good equipment for satisfactory work in botany, forestry, and bacteriology, including sixty compound miscroscopes, microscope slides, projection apparatus, lantern slides and charts, Zimmerman, Spencer and Minot rotary microtomes, embedding baths, balances, incubators, Arnold, hot air sterilizers, autoclaves, dry ovens, anaerobic apparatus. The students have access to a small botanical and bacteriological library.

A creditable beginning has been made in collecting a herbarium. The herbarium has been installed in new insect-proof cases. The general collection includes the Anderson herbarium of 2,500 mounted specimens, about 700 mounted specimens of American violets, and 1,000 mounted specimens of flowering plants of Central New York, as well as a set of the F. V. Coville plants of New York State. The South Carolina herbarium contains over 1,200 mounted specimens, representing the South Carolina flora, and is kept separate from the general herbarium.

CHEMISTRY

Professor Brackett

Professor Mitchell

Professor Lippincott

Assistant Professor Pollard

Assistant Professor Brooks

CHEMISTRY 1, 2—General Chemistry—Semesters 1 and 2. (Pollard and Brooks)
Freshman I, III, IX: (3 and 2)
Sophomores IV, V, VI, VII, VIII: (2 and 2.)

An introduction to chemistry, including the preparation and properties of the common substances, together with the consideration of the fundamental principles of chemical theory. Lecture experiments, and laboratory exercises supplement the class work.

Text-book: Smith's "Intermediate Chemistry," revised and rewritten by Kendall and Slosson.

Laboratory Manual: Kendall—"Laboratory Outline of Smith's Intermediate Chemistry."

CHEMISTRY 1a, 2a—General Chemistry—Semesters 1 and 2. (Pollard and Brooks)
Freshman I, III, IX: (3 and 2)
Sophomores IV, V, VI, VII, VIII: (2 and 2.)
Prerequisite: High School Chemistry.

A more advanced course to suit the needs of students who have had a year's work in chemistry. The same subject matter will be covered as in the other course, but a more advanced study made of the important topics.

Text-book: McCoy and Terry—"Introduction to General Chemistry" —McCoy and Terry—"Laboratory Outline for General Chemistry."

CHEMISTRY 3, 4—Qualitative Analysis—Semesters 1 and 2. (Lippincott)
Sophomores III: (0 and 6).
Sophomores IV: Second Semester (0 and 4)
Prerequisites: Chemistry 1, 2.

The properties and reactions of metallic elements and of the common inorganic and organic acids, also the qualitative analysis of a number of solutions and solid mixtures. Part of the time is set aside for theoretical work, during which time special attention is paid to the theory of electrolytic dissociation and the law of mass action.

Text-book: "Qualitative Chemical Analysis."—A. A. Noyes.

CHEMISTRY 5.—Inorganic Preparations—Semester 1. (Lippincott)

Sophomores III: (0 and 2)
Prerequisites: Chemistry 1.

A study of the preparation, purification, properties and reactions of the more common inorganic compounds.

Text-book: Blanchard's "Synthetic Inorganic Chemistry."

CHEMISTRY 6.—Assaying—Semester 2. (Lippincott)

Sophomore III: (0 and 2)
Prerequisites: Chemistry 1, 2.

A brief course which involves the determination of the oxidizing and reducing power of the reagents used, and assays of gold, silver, lead and copper ores.

Text books: Notes on Assaying, and Standard Reference books.

CHEMISTRY 7, 8.—Organic Chemistry—Semesters 1 and 2. (Mitchell)

Sophomore III, IX, XIII: (2 and 2)
Junior IV: (2 and 2)
Junior I. Elective: (2 and 0)
Prerequisites: Chemistry 1, 2.

A study during the first semester of the underlying principles of organic chemistry; the more common saturated and unsaturated aliphatic hydrocarbons; alcohols and their derivaties and aldehydes and ketones.

The second semester is devoted to the study of amines, polyatimic alcohols; hydroxyacids; carbohydrates; proteins; bezene and some of its homologues and a few of the more important dyes.

The laboratory course involves the preparation and purification of compounds selected from the fatty and aromatic series for the illustration of important synthetic reactions.

Text-books: Moore's "Outlines of Organic Chemistry," and Norris' "Experimental Organic Chemistry."

CHEMISTRY 9, 10—Quantitative Chemistry—Semesters 1 and 2. (Mitchell)

Sophomore III: (0 and 2)
Junior IV: (0 and 2)
Junior I. (Elective): Semester 1, (0 and 2). Semester 2, (0 and 4)
Prerequisites: Chemistry 1, 2.

The lectures and laboratory instruction are designed to prepare students to understand the mathematical relations, and the fundamental laws of chemistry, and to illustrate the principles involved in both gravimetric and volumetric methods used in elementary analysis.

Text-book: Mahin's "Quantitative Analysis."

CHEMISTRY 11, 12—Physical Chemistry—Semesters 1 and 2. (Lippincott)

Junior III: (2 and 2)
Junior IV—Semester 1. (2 and 2)
Prerequisites: Chemistry 1, 2.

A systematic presentation of modern chemical theory in which special attention is paid to the following topics:—gasses, liquids, and solids; the theory of solutions; reaction velocity, catalysis and chemical equilibrium; the Phase Rule; colloid chemistry; thermochemistry and elementary electro-chemistry.

The laboratory work involves qualitative and quantitative experiments illustrating the principles of physical chemistry and including practice in performing physical chemical measurements. An important feature of this course is the presentation of detailed reports based upon data obtained in the laboratory.

Text-books: Biglow's "Physical Chemistry" and Briss's "Laboratory Outlines of Physical Chemistry."

CHEMISTRY 13, 14.—Quantitative Chemistry—Semesters 1 and 2. (Mitchell)

Junior III: (0 and 4)
Prerequisites: Chemistry 6.

A continuation of Chemistry 6, involving the analysis of limestone, clay, silicates and the products of some important industrial and metallurgical operations as coal, pig iron, steel, etc. Electrolytic methods and separations.

Text-books: Mahin's "Quantitative Analysis" and other standard reference books.

CHEMISTRY 15, 16.—Organic Chemistry—Semesters 1 and 2. (Mitchell)

Junior III. (2 and 4)
Prerequisites: Chemistry 7, 8.

A review and extension of chemistry 7, 8, the greater portion of time being given to the study of aromatic compounds.

The laboratory work is more advanced and the greater portion of the time will be devoted to quantitative organic analysis.

Text-book: Perkin and Kippen, "Organic Chemistry."

CHEMISTRY 18—Electro-chemistry—Semester 2. (Mitchell)

Junior IV: (2 and 2)
Prerequisites: Chemistry 1, 2.

A course in which the fundamental principles of electro-chemistry are studied, such as the theory of electrolytic dissociation, migration of ions, conductance of electrolytes, electromotive force, polarization and the theory of storage cells, etc.

The laboratory course involves the study of specific resistance, polarization, Faraday's law, electrolytic separation of metals, electroplating, etc.

Text-books: Le Blanc's "Electro-Chemistry."

CHEMISTRY 19, 20—Agricultural Chemistry—Semesters 1 and 2 (Brackett)

Junior I: (2 and 0)

Prerequisites: Chemistry 1, 2.

This course is devoted to a study of the composition of plants and a discussion of the sources from which the plant derives its constituent elements.

Text-book: Chamberlain's "Organic Agricultural Chemistry;" Hart and Tottingham's "General Agricultural Chemistry."

CHEMISTRY 21, 22—Metallurgy—Semesters 1 and 2. (Brackett).

Junior III and Senior IV: (2 and 0)

Prerequisites: Chemistry 1, 2.

Physical properties of metals; testing metals; refractories and fluxes; combustion and thermal measurements; fuels; ore dressing; furnaces and accessories; iron ores and metallurgy of iron and steel; copper ores and smelting, extraction and refining of copper; lead ores and metallurgy, and refining of lead; zinc ores and metallurgy of zinc; gold and silver; alloys, their nature and preparation and uses.

Text-books: Wysor's "Metallurgy"; Hiorn's "Mixed Metals;" Notes on alloys.

CHEMISTRY 23, 24—Industrial Chemistry—Semesters 1 and 2. (Brackett)

Seniors I (Elective), III, IV: (2 and 0)

Prerequisites: Chemistry 1, 5 and 7.

The manipulations of most frequent occurrence in the various processes, such as lixiviation, levigation, evaporation, distillation, filtration, calcination, etc., and a study of selected topics, as fuel, water, sulphur, sulphuric acid, hydrochloric acid and soldium sulphate, soda industries, chlorine industries, nitric acid, ammonia, atmospheric nitrogen fixiation processes, potash industry, fertilizers, lime, cement, plaster of Paris, illuminating gas, coal tar, etc.

Text-book: Thorp's "Outlines of Industrial Chemistry."

CHEMISTRY 25—History of Chemistry—Semester I (Brackett)

Senior I (Elective) and III: (2 and 0)

Prerequisites: Chemistry 1, 5, and 7.

The study of the development of the science of chemistry from the earliest times to the present day.

Text-book: Moore's "History of Chemistry."

CHEMISTRY 26—Stoichiometry—Semester 2 (Brackett)

Senior I (Elective) and III: (2 and 0)

Prerequisites: Chemistry 1, 5, and 7.

A study of chemical equations, the various kinds in use with their meaning and value; different ways of balancing equations; calculations of various kinds involved in chemistry.

Text-book: Ashley's "General Calculations."

CHEMISTRY 27, 28—Inorganic Chemistry—Semesters 1 and 2. (Brackett)

Senior I (Elective), III and IV: (2 and 0)

Prerequisite: Chemistry I

A review, extension and continuation of chemistry 1, with special reference to the laws and theories of chemistry, and a study of some of the rarer substances.

Text-book:

CHEMISTRY 29, 30—Quantitative Chemistry—Semester 1 and 2. (Mitchell)

Senior III, IV: Semester I (0 and 6); Semester 2 (0 and 8)

Senior I (Elective): Semesters I and 2 (o and 6)

Prerequisites: Chemistry 6 and 8

An advanced course following in systematic order chemistry 8. The analysis of commercial fertilizers, feeding materials, waters, etc. The latter part of the course is devoted to thesis work.

Text-book: Methods of the Association of Official Agricultural Chemists; standard reference books on quantitative analysis.

Division Rooms and Equipment

Two substantial brick buildings of about the same dimensions, each consisting of two stories and a basement, and connected on the first and second floors by glass covered passages, are devoted to the work of this department. Both buildings are well ventilated, heated by steam, and lighted by electricity.

The entire south building is devoted to academic work. On the first floor of this building there are six rooms — one is a physical-chemical laboratory; one is a balance room for students; one is at present used as a laboratory by the Experiment Station; one is a stock room in which a small amount of stock is kept, and communicates by a stairway with the main stock room in the basement; one is used as a qualitative laboratory for Sophomores; the remaining room is fitted up for organic preparations and alalysis, to be used by junior and senior students. All of these laboratories are suitably equipped with the necessary work tables, hoods, or fume closets, water and gas. On the second floor of this building are three rooms: one is used as a laboratory for first year students (freshmen and sophomores) in general experimental chemistry and qualitative analysis; one for junior and senior students in quantitative analysis, and adjoining and opening into it is the third room used as a balance room. Like the laboratories on the first floor, these are also suitably equipped for the purposes for which they are used. The basement of this building contains three rooms: one a stock room; one a store room for boxes, etc.; in the third room is installed the air pump and mixer of the gasoline gas machine, which supplies this building.

The north building serves partly for academic and partly for the analytical work of the Fertilizer Analysis Division of the Public State Work of the college. The first floor of this building is all given up to the latter work. There are nine rooms on this floor: one is used as the Director's office; one as a laboratory for water analysis and miscellaneous analytical work; one is used for nitrogen availability work, and adjoining this room is a small room used as an office and balance room by the chemist of the fertilizer control; the five rooms on the other side of the wide hall extending the full length of the building are devoted to the analysis of fertilizers, three of them being equipped as laboratories for the determination of phosphoric acid, potash and ammonia; one being used as a balance room, and the last as a store room, for fertilizer samples. The laboratories for fertilizer analysis are well equipped for carrying on efficiently a large amount of work simultaneously. The phosphoric acid room has, in addition to the usual equipment, a stirring machine operated by motor for use in volumetric determinations. The potash room contains an electric drying oven. The ammonia laboratory has facilities for carrying on forty-four digestions and forty-four distillations at the same time, using the Kjeldahl method. On the second floor of this building there are six rooms: two are used as lecture or class rooms, one of which can accommodate about 150 students and the other 49; one room is used as a preparation room in connection with lecture experiments; one is fitted for electrochemical work; one is used as a chemical library, and an adjoining room as a reading room. The library contains several hundred volumes of standard books, which are partly card indexed according to the most modern system, and the reading room a dozen or more journals devoted to chemistry. The library also contains many valuable pamphlets and bulletins. Both the library and reading room are open to students as well as to members of the Department and to the College Faculty. The basement of this building contains four rooms, one of which is a safe deposit vault for storage of records and other things of value. One of the other three rooms is used as a stock room; one for the distillation of water; in one is installed the gas plant, which supplies this building; and the remaining room is used as an assay laboratory.

In addition to the apparatus and chemicals usually found in all well equipped laboratories for qualitative and quantitative analysis, the quantitative laboratory for Juniors and Seniors contains an electric drying oven, and a stirring machine for volumetric phosphoric acid determination, and a motor to run the machine, and also equipment for Kjeldahl nitrogen determinations; the laboratory for physical chemistry is now equipped for the conduct of the experiments in connection with the course as now offered.

CIVIL ENGINEERING

Professor Clarke

Assistant Professor Still

CIVIL ENGINEERING 1, 2—Surveying—Semesters 1 and 2. (Clarke)

Sophomore V. (2 and 4)

Prerequisites: Mathematics 3, 4.

This course is designed to give the student a considerable facility in the theory and use of modern surveying instruments and methods, including the platting of notes for maps and profiles.

Text-book: Breed and Hosmer's "Principles and Practice of Surveying."

CIVIL ENGINEERING 3, 4—Surveying—Semesters 1 and 2. (Clarke)

Sophomore IV, VI, VII, VIII, Elective IX. (1 and 2)

Prerequisites: Mathematics 3, 4.

This course covers only the more simple and fundamental theory and use of the tape, transit, and level.

Text-book: Breed and Hosmer's "Principles and Practice of Surveying".

CIVIL ENGINEERING 5—Railroad Curves and Earthwork—Semester 1. (Clarke)

Junior V. (3 and 0)

Prerequisites: Civil Engineering 1, 2.

This course covers the theory and solution of problems involving simple, compound and reverse curves; and the special modifications thereof in the use of frogs. Special attention is given to the spiral transition from tangent to curve. The setting of slope-stakes and various problems of computation of earthwork from cross sections and also from contours, are thoroughly covered in this course.

Text-book: Allen's "Railroad Curves and Earthwork."

CIVIL ENGINEERING 7—Topographical Surveying and Mapping—Semester 1. (Clarke)

Junior V. (0 and 4)

Prerequisites: Civil Engineering 1, 2.

The first part of this course is devoted to the establishment of a base line and the accurate measurement thereof; the determination of the azimuth by Polaris observation; the laying out of a triangulation system to cover a certain prescribed area and the determination of all angles to the utmost possible degree of accuracy; and the taking of the topography by the stadia method, of this triangulation area.

The second part of the work of this course is the computation of the values in the triangulation system, making the angle and side adjustments of the observations. In platting the data the greatest possible degree of accuracy and neatness is demanded. The finished map is expected to show not only contours, but every detail of nature or culture; with the relief brought out by the use of water colors.

CIVIL ENGINEERING 8—Strength of Materials—Semester 2. (Still)

Junior II, V: (3 and 0)

Prerequisite: Mechanical Engineering 3.

A study of the various building and structural materials as regards stresses, tension, compression, shearing, rivited joints, beams and columns.

Text-book: Smith's "Strength of Materials"

CIVIL ENGINEERING 10—Graphic Statics—Semester 2. (Still)

Junior II, V: (3 and 0)

Prerequisites: Mechanical Engineering 3.

A study of the graphical solution of simple frames and trusses, and the graphical methods of design. Special attention is given to problems common in practical design such as; masonry dams, trusses, girder diagrams, postal bracings, etc.

Text-book: Malcolm's "Graphic Statics."

CIVIL ENGINEERING 12—Railroad Location—Semester 2. (Clarke)

Junior V. (0 and 4)

Prerequisite: Civil Engineering 5.

This course is designed to put in actual practice the theoretical principles covered during the first semester in Civil Engineering 5. An actual railroad survey is mae between two prescribed termini, covering reconnaissance, preliminary survey, and location; the final line is run in with all curves spirialed: the grade is fixed, slope-stakes set and the amount of earthwork and total cost of construction computed.

CIVIL ENGINEERING 14—Structural Design—Semester 2. (Still)

Junior V. (0 and 4)

Prerequisite: Mechanical Engineering 1, 2.

This course is devoted for the first half of the semester to a thorough study of built-up sections, riveting, and the design of details; such as joints, bracing, latticing, supports, etc. The second half is devoted entirely to the detail design of either a plate or deck girder.

Text-book: Bishop's "Structural Design."

CIVIL ENGINEERING 15—Bridge Design—Semester 1. (Still)
Senior V. (0 and 2)
Prerequisites: Civil Engineering 10, 14

The entire time is devoted to a detail design of a bridge. Special attention is paid to the detail of the joints, bracings, and supports.

Text-book: Bishop's "Structural Design."

CIVIL ENGINEERING 17—Hydraulics—Semester 1. (Clarke)
Senior V. (2 and 0)
Prerequisite: Mathematics up to and inclusive, calculus.

A course covering the principles of the flow of water, with particular reference to the need of knowledge thereof in connection with the study of water supply systems and sewerage.

Text-book: Daugherty's "Hydraulics."

CIVIL ENGINEERING 18—Hydraulics—Semester 2. (Clarke)
Senior IV, VI, VII. (2 and 0)
Prerequisite: Mathematics 6, 7.

A general course in the fundamental principles governing the flow of water through orifices, weirs, pipes and channels.

Text-book: Daugherty's "Hydraulics."

CIVIL ENGINEERING 19—Strength of Materials—Semester 1. (Still)
Senior VI, VII. (3 and 0)
Prerequisite: Mechanical Engineering 1, 2.

This course is a study of the various building and structural materials and includes, stresses, tension, compression, shear, torsion, riveted joints, beams, and columns. Experimental results are used to illustrate the applications to the actual building in the field.

Text-book: Boyd's "Strength of Materials."

CIVIL ENGINEERING 21—Masonry Construction—Semester 1. (Clarke).
Senior V. (3 and 0)
Prerequisite: Civil Engineering 8, 10.

While this course gives consideration to all kinds of masonry, the most particular attention is directed toward the use of concrete, both plain and reinforced. The subject of foundations is taken up in detail, and the methods used in improving the bearing power of weak soils. Discussion is made of the fundamental principles of design applying to dams, retaining walls, bridge abutments and piers, and arches.

Text-book: Baker's "Masonry Construction."

CIVIL ENGINEERING 23—Roads and Pavements—Semester 1. (Clarke)

Senior V. (2 and 0)

Prerequisites: Civil Engineering 7, 12

This course consists of a thorough investigation into the merits and disadvantages of all different types and methods of highway construction, from dirt roads up to the highest type of hard surfaced pavement. The details of construction are covered in full, in order in so far as possible to fit the student to enter at once into the highway improvement which at this time engages so much public attention. In addition to the general problem of highway construction, this course also gives attention to the problems of grade and drainage of streets, which especially confront the municipal engineer. Students in this course must take civil engineering 13 also.

Text-book: Agg's "Roads and Pavements."

CIVIL ENGINEERING 24—Water Supply—Semester 2. (Clarke)

Senior V. (3 and 0)

Prerequisites: Civil Engineering 7, 8, 10, 12, 17.

A course devoted to the engineering procedure necessary to determine the quantity and quality of various sources of water supply, and the method used to improve the quality of unpotable waters; and the construction of works for the collection of water, and works for the distribution of water.

Text-book: Turneaure and Russell's "Public Water Supplies."

CIVIL ENGINEERING 26—Sewerage and Sewage Disposal—Semester 2. (Clarke)

Senior V. (3 and 0)

Prerequisites: Civil Engineering 7, 8, 10, 12, 17.

A very specific course covering all the points of theory and practice involved in the construction of a modern sewerage system, and the various methods employed to dispose of sewage in accordance with sanitary law.

Text-book: Babbitt's "Sewerage and Sewage Treatment."

CIVIL ENGINEERING 28—Engineering Relations—Semester 2. (Clarke)

Senior V. (1 and 0)

This course covers the general principles of law and ethics involved in the relations of the engineer as principal, agent, or client; and the fundamental legal features involved in the writing of contracts and specifications.

Text-book: Allen's "Business Law for Engineers."

CIVIL ENGINEERING 30—Engineering Investigations and Design—Semester 2. (Clarke).

Senior V. (0 and 4)

Prerequisites: Civil Engineering 21, 23

This is a practical course in conjunction with the theoretical work given during the senior year and gives actual experience in the performance of the necessary investigations and design of structures in all those branches. In masonry; borings are made to accertain foundations, and designs are made of bridge masonry and arches. In water-supply; a stream is gauged and rated, and the necessary surveys and designs are made for collecting, storage and distributing works. In roads and pavements, actual local examples are cited and designs are prepared insofar as possible to be remedied for existing conditions In sewerage, a field survey and actual design are made for a sewerage system for some neighboring town.

Inspection trips away from the college are planned as circumstances favor.

CIVIL ENGINEERING 32—Road Materials Testing Laboratory—Semester 2. (Burr)

Senior V. (0 and 4)

Prerequisite: Civil Engineering 21, 26.

A practical course covering the standard tests of bituminous and non-bituminous materials used in highway construction .

Text-books: Baker's "Masonry Construction," Agg's "Roads and Pavements" and Hubbard's Laboratory Manual of Bituminous Materials.

CIVIL ENGINEERING 34—Thesis—Semester 2. (Clarke).

Senior V. (0 and 2)

Every senior, prior to graduation, is required to prepare and submit a thesis. This may be either an original theoretical investigation; or an actual design similar to the work done in courses 15, 30, and 32. The time allotted to this subject represents merely the time devoted thereto under the direct supervision of the instructor. The student is expected to put in much additional individual work.

Division Rooms and Equipment.

The collection of field instruments contains the following:

Two complete transits with solar attachments; four engineer's transits; four railroad compasses; two six-inch vernier compasses; one precise level; three twenty inch wye levels; four dumpy levels; two architect's levels; one convertible architect's level; one drainage level: six Locke hand levels; one binocular hand level: two stadia hand levels, with a supply of self-reading and target rods; two complete plane tables; a Price current meter, with steel boat and truck; sextant; aneroid barometer; flag poles; tapes; chains and all ncessary accessories.

The office equipment includes planimeter, slide rules, drafting instruments, and a universal drafting machine.

DAIRY HUSBANDRY

Professor LaMaster

Associate Professor Goodale

DAIRYING 2—Milk Products, Production and Manufacture—Semester 2. (Goodale)
Junior 1: (2 and 2)

The object of this course is to give the student a knowledge of the production, care and testing of milk and its products; also the Management and feeding of dairy cattle.

Text-book: "Productive Dairying"—Washburn. "Milk and Its Products"—Wing.

DAIRYING 4—Dairy Cattle Judging—Semester 2. (LaMaster)
Junior I (Elective): (0 and 2)

A study of the breeds, type and characteristics of dairy cattle with practice in judging and selection of animals for production and exhibition.

DAIRYING 5, 6—Dairy Manufacturing—Semester 1 and 2. (Goodale)
Senior 1: Semester 1 (2 and 2) Semester 2 (2 and 4)
Prerequisite: Dairying 2.

This course deals with the problems of market milk and the intensive study of the manufacture of butter, cheese and ice cream.

Text-books: "Principles and Practice of Buttermaking" McKay and Larsen, "The Book of Cheese"—Thom and Fisk, "The Book of Ice Cream"—Fisk.

DAIRYING 7—Creamery Organization and Management—Semester 1 (Goodale)
Senior 1: (3 and 0) Elective
Prerequisite: Dairying 2.

A thorough study of the organization and operations of commercial creameries, creamery accounting, and marketing of dairy products.

Text-book: "Management of Dairy Plants"—Mortensen

DAIRYING 9—Dairy Cattle Feeding and Management—Semester 1 (LaMaster)
Senior 1: (2 and 2) Elective.
Prerequisite: Dairying 2.

This course is an advanced study of feeds, care, management and development of dairy cattle and methods of milk production.

Text-book: "Feeding and Management of Dairy Cattle"—Larsen and Putney.

DAIRYING 10—Dairy Cattle Breeding—Semester 2 (LaMaster)
Senior 1: (1 and 2) Elective.
Prerequisites: Dairying 2 and Agronomy 5.

A study of the practical application of the principles of genetics in its relation to dairy cattle breeding. This will be followed by an extensive study of the leading families and individuals of the major dairy breeds.

Text-book: To be selected.

DAIRING 12—Advanced Dairy Farming—Semester 2. (LaMaster)
Senior 1: (2 and 2). Elective.
Prerequisite: Dairying 2.

A study of dairy herds based on milk and feeding records, dairy farming and its relation to soil fertility, and dairy farm management. An advanced course in dairy farming.

Text-book: "Farm Dairying"—Larsen

DAIRYING 102—Dairy Farming—Semester 2. (Goodale)
Two year Agriculture XII: (3 and 2)

A course which takes up the production and care of milk on the farm with a practical study of the use of dairy equipment and the manufacture of dairy products on the farm, and in the creamery.

Text-book: "Dairy Farming"—Eckles and Warren

Division Rooms and Equipment

The live stock consists of a large herd of registered Jersey cattle, registered Holstein-Friesians, and registered Guernseys.

These cattle are housed in a splendid modern dairy barn with a capacity of one hundred and twenty cows. This barn has the most sanitary equipment throughout.

The dairy laboratories are equiped for milk testing, separator demonstrations, butter making, etc.

The Clemson College Creamery has complete equipment for the making of butter, cheese and ice cream and the cooling and the pasteurization of milk. This creamery is in continuous operation for the entire year, and offers exceptional advantages to students who wish to fit themselves for commercial creamery and ice cream work.

DRAWING

Professor Lee

Associate Professors Klugh and Shubert

Instructors Harris and Burr

DRAWING 1—Freehand Drawing—Semester 1. (Harris)
Freshman I, III, IX, XIII. (0 and 2.)

The course is designed, primarily, to assist the student where drawing is needed in his work in agricultural subjects. Proportion and detail are stressed. The course consists in fullsized, enlarged and reduced drawings of irregular shaped objects and in outlining and shading of geometrical figures.

DRAWING 3—Freehand Drawing—Semester 1. (Harris)
Freshman II. (0 and 2).

This course is the same as the first semester of drawing 1.

DRAWING 5, 6—Freehand Drawing—Semesters 1 and 2. (Haris)
Freshman IV, V, VI, VII, VIII, XI. (0 and 2).

A course, designed to meet the needs of the engineer, who must express himself in the clearest and quickest way to workmen under his charge.

During the first semester the student gets a thorough drill in the principles of perspective. The second semester is devoted to drawing machine parts, particular attention being given to the development of the imagination.

DRAWING 8—Mechanical Drawing—Semester 2. (Harris).
Freshman I, III, IX, VIII. 0 and 2)

Lettering, exercises in the uses of instruments, orthographic projection, scale drawings from the text; design of a small farm building, tracing and blue printing.

Text-book: French and Ives' "Agricultural Drawing."

DRAWING 9, 10—Mechanical Drawing—Semesters 1 and 2. (Klugh, Burr and Shubert)
Freshman IV, V, VI, VII, VIII, (0 and 2)

Exercises in the use of instruments and in applied geometry; Reinhardt lettering; conventional use of lines; orthographic projection; scale working drawings from the text; finding other views of objects from given views; working drawings from sketches; working drawings from parts of machines; assembled views from working drawings of parts; tracing; blueprinting.

Text-book: French's "Engineering Drawing."

DRAWING 11—Mechanical Drawing—Semester 1. (Klugh)
Freshman II. (0 and 2)
Same as first semester Drawing 9.

DRAWING 13—Descriptive Geometry—Semester 1. (Klugh)
Sophomore IV, V, VI, VII, VIII. (0 and 2)
Prerequisites: Drawing 6, 8

Study and delineation of projections of points, lines, plane surfaces and solids, and their various relationships; tangencies, inter sections, and developments under normal and sub-normal conditions; original exercises required to illustrate topics under consideration.

Text-book: Kennison's and Bradley's "Descriptive Geometry."

DRAWING 14—Mechanical Drawing—Semester2. (Klugh)
Sophomore IV, VI, VII, VIII. (0 and 2)
Prerequisites: Drawing 6, 10, 13.

Continuation of work in Drawing 10 in orthographic projection; intersection and development problems, showing relation of plan and elevation to developed surfaces, isometric and perspective drawing; working drawings from machines or parts of machines from sketches and specifications. Elementary principles of machine design. Tracing and blue printing.

Text-book: French's "Engineering Drawing."

DRAWING 16—Structural Drawing—Semester 2. (Klugh)
Sophomore V. (0 and 2)
Prerequisites; Drawing 6, 10, 13.

Study of structural symbols and elementary structural design. Reading of structural drawings; tracing and blue printing.

Text-book: French's "Engineering Drawing;" Instructor's notes and problems.

DRAWING 17, 18—Machine Design—Semesters 1 and 2. (Klugh)
Junior IV, VI, VII; (0 and 3).
Prerequisite: Drawing 14.

One hour each week is devoted to the study of the theory of spur, bevel, and screw gearing; lobed and elliptic wheels; epicyclic trains; ratchet motions; link motions; quick return motions; and cam motions. A series of lectures covering some of the practical problems of engineering is given in connection with this course.

Two hours each week are devoted to practical problems illustrating the principles studied, to working drawings in design, and to tracing and blue printing.

Text-books: Keown's "Mechanism", French's "Engineering Drawing"

Division Rooms and Equipment

This division occupies twelve rooms on the second floor of the engineering building, especially arranged for their purposes.

There is an office for the head of the division and the college architect, one lecture room which contains an extensive exhibit of building materials for use of the architectural students and others, eight drafting rooms for freehand, mechanical and architectural drafting, an architectural library containing a large number of volumes on architectural and allied subjects, with many valuable plates and complete files of all important architectural magazines, and three blue print rooms equipped for printing by sun and electricity. A 42-inch Pease automatic printing, washing and drying blue-print machine is installed in one of these rooms. The rooms are equipped with drafting tables, individual lockers, plaster casts, parts of machines useful in design and blue prints. The best student work is displayed on the walls and exhibits of students' work from other architectural schools are held occasionally.

Each student is required to own a complete outfit of drawing tools, such as set of instruments, board, T-square, and other material. This outfit must be first-class in every respect, must be approved by the instructor in charge, and no second-hand or inferior tools will be permitted to be used by an engineering student; the agricultural freshman, however, may use the cheaper instruments. Students are incapable of judging drawing instruments and make a mistake in buying low-priced instruments which appear to be of good quality, but are inferior and will not give good service, soon necessitating the purchase of another set. Students are advised to buy these tools at the Cadet Exchange where they can see samples and make selections. On account of the large number of sets of instruments bought by the college each year, a very large discount is obtained and given to the student. The more expensive and less used instruments are kept in the office for the use of students needing them.

EDUCATION

Professor Crandall

Associate Professor Sisk

Assistant Professor Washington

Assistant Professor Wilson

EDUCATION 1—Introduction to Education—Semester 1. (Crandall)

Junior I: IX: Elective (3 and 0)

A general introductory course required of all students majoring in Education and Agricultural Education. This course takes up a survey of the general field of Education for the purpose of giving the student a background for more specialized courses in Education.

Education is approached in this course, as in all other courses, as a science, and a few modern educational problems are studied in detail as types of the work to follow the more advanced and specialized courses in Education.

EDUCATION 3, 4—General Psychology—Semesters 1 and 2. (Sisk)
Senior, All Courses, Elective: (2 and 0) Semesters 1 and 2.

The subject is approached from the standpoint of behavior and will study the more practical phases of applied psychology.

Text-book: "Fundamentals of Psychology"—Pillsbury.

EDUCATION 5—Educational Psychology—Semester 1. (Sisk)
Senior 1, IX, Elective: (2 and 2)

An elementary course in Educational Psychology required of all students majoring in Education or Agricultural Education. Topics: The learning process in terms of situation, bond, and responses; types of learning; effect of attitude, feeling, and method on the process of learning; the laws of retention; reflexes, instincts, and habits; individual differences in relation to the performances of simple tasks, the normal surface of distribution, and methods of grading students; the physiological bases of learning; instincts and their meaning.

EDUCATION 7—Principles of Teaching—Semester 1. (Crandall)
Senior I, IX, Elective: (3 and 2)
Prerequisites: Education I, 5. (Educational Psychology must precede or be taken as a prallel course)

This is a general course treating of the principles of teaching high school subjects. Such topics as inductive and deductive reasoning and their application in teaching high school subjects; factors involved in project teaching; lesson types; teaching exercises; recitation, laboratory, supervised study, demonstration, assignment, field trips; examinations; type studies; and lesson planning are studied in this course.

EDUCATION 8—Special Methods in Teaching Agriculture—Semester 2. (Crandall)
Senior I, IX, Elective: (3 and 2)
Prerequisites: Education 1, 5, 7.

This course is planned primarily for students who intend to teach vocational agriculture. The following topics will be considered: The use of surveys in teaching agriculture; planning courses of study; agricultural curriculum; the project in agricultural teaching; community activities; class rooms, equipment, and materials; and a plan for each year's work.

EDUCATION 10—Speical Methods in Teaching High School Subjects—Semester 2. (Sisk)
Senior IX: (3 and 2)
Prerequisites: Education 1, 5, 7.

This course deals with the teaching of high school subjects. Among the topics to be considered are the objectives of different high school subjects, course building, methods of evaluating instruction in high school subjects, comparative study of text books and laboratory manuals, and the adaptation of high school courses to local conditions.

EDUCATION 13, 14—Practice Teaching—Semesters 1 and 2. (Crandall, Sisk, Wasington, Wilson)
Senior I, IX, Elective: (3 and 0)
Prerequisites: Education 1, 5, 7.

This course is required of all students who desire to complete a sequence of courses in Education or Agricultural Education. The course consists of observation and supervised teaching in high school departments in public high schools located near the college.

EDUCATION 15—Secondary Education—Semester 1. (Crandall)
Junior, Senior I, IX, Elective: (3 and 0)
Prerequisite: Education I

Among the topics to be considered in this course are: The school plant including buildings, supplies, and equipment; the teaching corps, its selection, supervision, promotion, and dismissal; curricula and courses of study; the program of studies; classification and promotion of pupils; guidance of pupils; extra-curricular activities; administration and supervision of mental and educational tests; and accrediting high school work.

EDUCATION 16—Public School Administration—Semester 2. (Sisk.)
Senior I, IX, Elective: (3 and 0)
Prerequisite: Education I

The common school district and its liminations; the county units of school administration and supervision; the possibility of the natural community in administering and supervising public education; the authority and function of the state in administering and supervising public education; factors affecting consolidation; participation of federal government in public education; methods of financing public schools and bases of distributing public school funds, are the topics discussed in this course.

EDUCATION 18—Educational Tests and Measurements—Semester 2. (Sisk.)
Senior I, IX, Elective: (3 and 0)
Prerequisite: Education 1, 5.

This course will include a general survey of the scope and purpose of intelligence and educational tests. Directions will be developed for selecting and evaluating tests and their use by the class room teacher and the superintendent. Practice will be given in giving individual and group intelligence tests and educational tests.

Some attention will be given to the methods of handling data.

EDUCATION 19—School Management—Semester 1. (Sisk)
Junior, Senior I, IX, Elective: (3 and 0)
Prerequisite: Education I. (Education I may be taken as parallel course)

A course planned to acquaint students with the technique of class room teaching. The topic considered include teachers' marks, daily schedule, reports to parents, discipline, means of securing attendance, use of playgrounds, incentives, etc.

The Division of Education offers two sequences of courses; one for students who major in Agricultural Education, and one for students who elect the Educational group in the General Science curriculum. The sequence of courses in Agricultural Education consists of the following: Introduction to Education, Educational Psychology, Principles of Teaching, Special Methods of Teaching Agriculture, and Practice Teaching. This sequence of courses qualifies one professionally to teach vocational agriculture in South Carolina and other states.

The sequence of courses in Education consists of the following: Introduction to Education, Educational Psychology, Principles of Teaching, Special Methods in Teaching High School Subjects, and Practice Teaching. The sequence of courses in general Education is planned to give a minimum of professional training to prepare one to teach high school subjects. Students who have had this professional training and successful high school teaching experience should be qualified to become principals and superintendents of schools.

These sequences of courses may be supplemented with such courses as School Management, Public School Administration, Secondary Education, and Tests and Measurements.

The work in Education and Agricultural Education is designed to meet the certification requirements of teachers in South Carolin and other states.

ELECTRICAL ENGINEERING

Professors Dargan and Rhodes

Instructor Burr

ELECTRICAL ENGINEERING 1—Electrical Engineering—Semester 1. (Rhodes and Burr).
Juniors VI, VII. (3 and 3)
Prerequisites: Mathematics 6; Physics 5, 6.

A study of electric and magnetic circuits, including fundamental laws for both direct and alternating current and the construction, operation and standard methods of testing electrical measuring instruments.

Text-book: Dawes' "Electrical Engineering," Vol. I.

ELECTRICAL ENGINEERING 2—Electrical Engneering—Semester 2. (Rhodes and Burr)
Junior VI, VII. (3 and 3)
Prerequisite: Electrical Engineering 1.

A continuation of electrical engineering 1 with an introduction to direct current generators and motors.

Text-book: Dawes' "Electrical Engineering," Vols. I and II.

ELECTRICAL ENGINEERING 3—Electrical Engineering—Semester 1. (Dargan).
Senior VI. (5 and 4)
Prerequisites: Electrical Engineering 2, Mathematics 7, Mechanical Engineering 1, 2.

A study of direct and alternating current dynamos and equipments including fundamental laws, construction, operation and testing.

Text-books: Dawes' "Electrical Engineering," Vols. I and II, Christie's "Electrical Engineering." Bulletins and reference books.

ELECTRICAL ENGINEERING 4—Electrical Engineering—Semester 2. (Dargan)
Senior VI. (5 and 5)
Prerequisite: Electrical Engineering 3.

A continuation of electrical engineering 3 with a brief introduction to the study of generation, transmission, distribution and utilization of electrical energy.

Text-books: Same as for electrical engineering 3.

ELECTRICAL ENGINEERING 5—Electrical Engineering—Semester 1. (Rhodes)
Senior VII. (3 and 2)
Prerequisites: Electrical Engineering 2, Mathematics 7, Mechanical Engineering 1, 2.

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Similar to electrical engineering 3, but arranged for mechanical engineering students.

Text-books: Dawes' "Electrical Engineering," Vols. I and II.

ELECTRICAL ENGINEERING 6—Electrical Engineering—Semester 2. (Rhodes)
Senior VII. (3 and 2)
Prerequisite: Electrical Engineering 5.

Similar to electrical engineering 4, but arranged for mechanical engineering students.

Text-books: Dawes' "Electrical Engineering" Vol. II.

ELECTRICAL ENGINEERING 7—Electrical Engineering—Semester 1. (Dargan, Rhodes, Burr.)
Seniors IV, V, VIII. (2 and 2)
Prerequisites: Mathematics 6; Physics 5, 6

A brief course covering fundamental principles and tests of the more important electrical equipment and applications.

Text-book: Gray's "Principles and Practice of Electrical Engineering."

ELECTRICAL ENGINEERING 9—Design—Semester 1. (Rhodes).
Senior VII. (0 and 2)
Prerequisites: Drawing 18 Electrical Engineering 2.

An analytical and graphical study of the principles of construction of electrical machinery through a series of problems in design. Students in this subject must take electrical engineering 5 also.

Text-book: Gray's "Electrical Machine Design."

ELECTRICAL ENGINEERING 10—Design—Semester 2. (Rhodes)
Senior VI. (0 and 2)
Prerequisites: Electrical Engineering 3, Drawing 2.

Similar to electrical engineering 8 but arranged for electrical engineering students. Students in this subject must take electrical engineering 4 also.

Text-book: Gray's "Electrical Machine Design".

Division Rooms and Equipment.

Electrical Instrument Laboratory. The electrical division occupies two single-story brick buildings, and includes in its equipment the following instruments and apparatus: Leeds and Northrup potentiometer, with certified standard resistances for measuring both current and potential; Kelvin deka-ampere balance; Weston laboratory standard voltmeter with multipliers; two motor-generator sets; three small motors; fourteen galvanometers; fifteen standard resistance sets; three standard resistance and Wheatstone bridge sets; dial decade standard test set; four meter-wire bridges; four standard condensers commercial condensers: Weston standard cells: ammeters; voltmeters rheostats; key switches; storage cells; primary cells, and other miscellaneous apparatus; also a quantity of special apparatus made in the college shops and laboratories.

Dynamo Laboratory. The lecture room has raised seats, and is equipped with instruments, illustration models, and other demonstration apparatus.

This laboratory equipment includes the following Voltmeters:

Twelve Weston, six General Electric Co. Thomson, one Jewell, one Whitney, one Ayrton and Perry, one Hoyt, one Kelvin electrostatic, one Cardew.

Ammeters: Eight Weston, six Weston millivoltmeters with current shunts, twelve General Electric Co. Thomson, one General Electric Co. hot wire, one Westinghouse portable, one Siemens electro-dynamometer, one Jewell.

Wattmeters: Six Weston indicating, five General Electric Co. Thomson indicating, four General Electric Co. Thomson watt-hour meters, one General Electric Co., one Fort Wayne and one Westinghouse induction watt-hour meters.

Miscellaneous instruments. Tachometers, speed counters, stop watches, current and potential transformers for instruments, frequency meters, etc

Direct Current Dynamos: ...One 17 kw Lundell, one 15 kw. Mather, one, 2.5 kw. Crocker-Wheeler, three 2 kw Kester, one 15 hp. Kes, ter, one 10 hp Kester, two arc light generators, one 4 hp. Westinghouse, one 25 hp. General Electric Co., one 1 kw. General Electric Co., one 7 1-2 kw. Westinghouse.

Alternating Current Apparatus: One 15 kva General Electric Company single, two, three and six phase revolving field generator, complete with marble switch board and full set of indicating instruments; one 7 1-2 kva. General Electric Company single, two and three phase rotary converter; two 15 kva revolving field synchronous alternators, also one squirrel cage rotor with starting compensator and one phase wound rotor with drum controller and resistor; five General Electric Company single, two and three phase induction motors; one Wagner three phase induction motor; one Wagner repulsion induction motor; three 3kva and three 5 kva constant potential transformers; one constant current transformer; two 5 kva Scott transformers; General Electric Company condensers and assortment of coils, models, etc.

Miscellaneous. 3-ton portable crane, prony brake, rheostats, drum controllers, circuit breakers, switches, fuse testing apparatus, lightning arresters; etc.

ENGLISH

Professor Daniel

Associate Professor Bradley
Assistant Professor Sease

Instructors—Oakes, Hedge, Withers

ENGLISH 1, 2—Composition and American Literature—Semesters 1 and 2. (Oakes, Hedge, Withers)

Freshman: All courses: (3 and 0)

This course, while it presupposes a knowledge of English grammar and syntax, gives a review of the subject and, in addition, a course in composition and rhetoric, embracing punctuation, the sentence, diction, and letter writing. Students are taught the use of dictionaries, encyclopedias, and other reference books.

American Literature. One period a week is given to the study of American literature. The historic development, the influences that gave distinctive characteristics to the literature of each period, the lives of the chief writers, a critical study of selections from each and a class-room reading of many other selections make up the principal work of the course.

Supplementary Reading. A supplementary reading course embracing some of the best works of the leading American authors is required, and written reports are made upon these. Every effort is made to inspire the student with a love for good literature, and special inducements are offered to those who do reading in addition to that required.

Text-books: "Freshman Rhetoric"—Slater; "Three Centuries of American Poetry and Prose"—Newcomer—Andrews—Hall; "Century Handbook of Writing"; Webster's "Secondary School Dictionary" or a book of higher grade; and twelve or more selections from American Literature.

ENGLISH 3, 4—Rhetoric and English Literature—Semesters 1 and 2. (Bradley and Hedge)

Sophomore: All courses: (3 and 0)

Prerequisites: English 1, 2.

The work of the first semester comprises a study of the whole composition, the development of the paragraph, a review of punctuation, and a careful study of the grammatical and rhetorical construction of the sentences. The work of the second semester takes up the consideration of the kinds of writing, giving special attention to exposition and description. Many of the themes are discussed in class, and consultations are held with students for individual discussion.

Text-books: "English Composition"—Greenough and Hersey; "Century Handbook of Writing."

Two periods a week throughout session.

English Literature. The work in English literature comprises a general historic survey of English literature from the Anglo-Saxon period to the Victorian Age. It makes a class-room study of one or more selections from representative authors of each period, and requires parallel reading from other writers. The selections—made from ballads, different forms of poetry, the drama, prose fiction, and the essay—illustrate the stages of the development of the literature. Parallel readings are assigned on which both oral and written reports are required.

Text-books: "Twelve Centuries of English Poetry and Prose" by Newcomer and Andrews: Long's "English Literature;" Webster's "Secondary School Dictionary" or one of higher grade.

One period a week throughout session.

ENGLISH 5, 6—Technical Writing, Public Speaking, Argumentation—Semesters 1 and 2. (Daniel and Bradley)

Junior: All courses: (2 and 0)

Prerequisites: English 3, 4.

Technical Writing—(Bradley)—A text-book on technical writing is used as a foundation and guide for the work. Students are required to make reports on experiments, to submit plans for construction, to draw specifications and contracts, and to make reports of investigations. Specimens of technical writing are analyzed and studied as models.

Text-books: "Handbook of English for Engineers"—Sypherd; "Century Handbook of Writing;" Webster's "Secondary School Dictionary"; "Expository Writing"—Curl.

One period a week for first and second semesters.

Public Speaking, (Daniel)—In this course in public speaking a text-book is used for a study of the theory of the subject, but most of the work is practical, stressing correct pronunciation, clear enunciation, and direct natural delivery. Selections are memorized for practice. Original speeches are prepared and delivered. Extemporaneous speaking is required.

Text-book: "The Elements of Public Speaking"—Houghton.

One period a week for first semester.

Argumentation, (Daniel)—In the course in argumentation instruction is given in selecting, stating, and defining questions for debate, in securing and testing evidence, in making briefs, and in presenting the argument. Models are used for guidance, but original briefs and arguments are required.

Text-book: Foster's "Argumentation and Debating."

One period a week for second semester.

ENGLISH 7, 8—Journalism, Dramatic Literature—Semesters 1 and 2. (Daniel)

Senior: Elective: (2 and 0)

Prerequisites: English 5, 6

Journalism: Text-books are used as the basis of the course in Journalism which is designed to train students in the preparation of technical articles for the general reader and to help those who expect to become leaders in industrial and economic life to do occasional writing for newspapers and other publications.

Text-books: "Special Feature Articles"—Bleyer; "Newspaper Editing and Writing"—Bleyer.

Two periods a week for the first semester.

Dramatic Literature. The course in dramatic literature gives a brief survey of the development of the drama followed by a study of some of Shakespere's plays and a modern play. Some time is also devoted to a study of present day literature. Occasional papers are required.

Text-books: To be selected.

Two periods a week for the second semester.

ENGLISH 11—Business Law—Semester 1. (Daniel)

Junior: Non R. O. T. C. (2 and 0)

The course in business law seeks to fix legal principles in the student's mind, to lead him to realize the limitations of the legal knowledge of the layman, to give definite ideas as to how laws operate in actual practice, to prepare him to carry on business transactions with such care that he may avoid legal difficulties.

The course begins with a brief survey of the origin, purpose and development of laws; then takes up a study of contracts, sales, agency, negotiable instruments, partnership, corporations, personal, property, and real property.

Problems from actual cases are discussed in class, the students taking opposing sides. Contracts, notes, mortgages, checks and other papers are written and discussed.

Text-book: "Business Law—Conyngton-Bergh.

ENGLISH 101, 102—Grammar and Composition—Semesters 1 and 2. (Hedge)

Two.Year Agr. XII: (4 and 0)

Two-Year Textile XI: (4 and 0)

This course comprises a thorough review including, in addition, a comprehensive drill in punctuation, a compilation and correction of common errors, and training in correspondence. Considerable time is devoted to the study of words and sentences with the view of giving the power to plan and present thoughts clearly and concisely.

The students are required to read and report on books related to their several courses.

Text-books: "Effective English Expression", "The Century Handbook of Writing"

ENGLISH 103, 104—Composition and Literature—Semesters 1 and 2.

Two-Year Agr. XII: (4 and 0)
Two-Year Textile XI: (4 and 0)

Same as course 1, 2.

GEOLOGY AND MINERALOGY

Professor Calhoun.

GEOLOGY 1, 2—Agricultural Geology—Semesters 1 and 2. (Calhoun).

Sophomore I: Semester 1 (3 and 0); Semester 2 (0 and 2)

In this course geology is considered in its practical relation to agriculture. The student becomes familiar with the soil-making rocks and minerals, the influence of the various mineral constituents in rocks on the texture of soil, the natural mineral fertilizers, and the formation of soils from rocks . The question of the relation of underground water to wells, springs, and artesian wells, to drainage problems, and to soil water is studied. The classes of soils derived from rivers, wind action, and glacier deposits are taken up. The principles and methods of making soil maps are explained. Topographical and geological maps are studied chiefly with reference to agricultural problems.

Text-book: "Agricultural Geology"—Emerson

GEOLOGY 3—Engineering Geology—Semester 1. (Calhoun)

Junior V: (2 and 0)

A brief course in which the practical application of geology to engineering is emphasized. Topographical and geological maps are used in connection with the text book.

Text-book: "Elements of Engineering Geology"—Ries and Watson.

GEOLOGY 5, 6—Chemical Geology—Semesters 1 and 2. (Calhoun)

Senior III: (2 and 0)

In this course structural geology, the theory of ore deposits, and the economic side of geology are emphasized. Special stress is laid upon the action of underground water in forming ores and veins. The theories of the formation of various classes of rocks are considered and special attention is given to that side of historical geology which enables the chemists to recognize certain horizons which carry minerals and ores of economic importance.

Text-book: "Elements of Engineering Geology"—Ries and Watson.

GEOLOGY 7, 8—Mineralogy—Semesters 1 and 2. (Calhoun)
Junior III, Senior I, IX, Elective: (2 and 2)

A comprehensive course in crystallography, physical, and chemical mineralogy, and systematic, descriptive and determinative mineralogy. Crystallography is taught by lectures and text book, with laboratory work based on the collection of models and natural crystals; also physical, optical, and chemical properties of minerals, and descriptive mineralogy covering the more important species. Much of the laboratory work is devoted to the determination of minerals by means of their physical and chemical properties, by comparison with labeled specimens of the systematic collection, and by the use of unlabeled collections for practice in identifying minerals at sight. This course gives a sufficient knowledge of mineralogy for the geologist, metallurgist, mining engineer, or chemist and will enable the student to identify readily all but the rarer minerals.

Text-book: "Mineralogy"—Moses and Parson.

GEOLOGY 10—Meteorology—Semester 2. (Calhoun)
Senior I, IX, Elective: (2 and 0)
Junior, All Courses Non R. O. T. C. (2 and 0)

A course designed to give the student an adequate conception of the use of meteorological instruments, weather maps, and the general principles of meteorology and climatology as applied to the growing of crops.

Text-book: "Agricultural Meteorology"—Smith.

GEOLOGY 101, 102—General Science—Semesters 1 and 2.
Two-Year Agr. XII: (3 and 0)

A course adapted to the needs of the short course agricultural students and given by the Divisions of Geology, Botany, and Physics.

Division Rooms and Equipment

The Division of Geology and Mineralogy occupies three rooms on the second floor of the Agricultural Building.

The systematic collections contain about 2,500 labeled specimens of rocks, minerals, and fossils. These are exhibited in glass cases in the laboratory and the museum, and are available to students and the public. A collection of the minerals and rocks of South Carolina is a prominent feature of the exhibit. There is also an unlabeled collection of minerals for practice in identifying species at sight, and unlabeled collections of the most important minerals are provided for determinative work in the laboratory.

The laboratory is supplied with water, gas and all apparatus and reagents necessary for the determination of minerals by means of their chemical and physical properties.

The class room is supplied with large physical wall maps of the world and of all continents, a complete series of topographic contour maps, furnished by the United States Geological Survey, an 18 inch terrestrial globe, a 20 inch relief globe, a set of geological and geographical relief models, and over a thousand lantern slides, stereographs, and photographs.

HISTORY AND ECONOMICS

Professor Morrison

Associate Professor Holmes

Assistant Professor Holton.

HISTORY 1—American Government—Semester 1 (Morrison, Holmes and Holton)

Freshman: All courses: (3 and 0)

This course presupposes familiarity with the elementary principles of Civic as given in the high schools.

The course develops the historical background of our government, traces the growth of the constitution, describes the actual workings of the various elements of our government and gives special attention to the defects of our system and to suggested remedies.

Parallel reading is required.

Text-book: Munro's "The Government of the United States."

HISTORY 2—Modern and Contemporary History—Semester 2 (Holmes and Holton)

Freshman: All Courses: (3 and 0)

This course requires an intensive study of European history during the ninetteenth and twentieth centuries. Emphasis is laid on the social and economic changes, on the development of nationalism and democracy, and on the causes and the results of the World War.

Parallel reading is required.

Text-book: Schapiro's "Modern and Contemporary European History."

HISTORY 3—Political Economy—Semeaster 1 (Morrison and Holton).

Senior: I, II, III, IV, V, VI, VII, VIII, IX: (2 and 0)

The course in political economy comprises a study of the characteristics of the present system, the evolution of economic society, consumption, production, value, exchange, rents, labor problems, transportation, agricultural problems, public finance and economic thought.

Text-book: Ely's "Outlines of Economics."

HISTORY 4—Sociology—Semester 2 (Holton)

Senior: II, III, IV, V, VI, VII, VIII, IX: (2 and 0)

The course in sociology is a study of the elementary principles of sociology (as illustrated in the origin, development, structure, and functions of the family considered as a typical institution) and of some of the special social problems, considered in the light of general principles.

Text-book: Ellwood's "Sociology and Modern Social Problems."

HORTICULTURE

Professor Newman

Associate Professor Hagan

HORTICULTURE 1—Fruit Growing—Semester 1. (Hagan).
Junior 1: (2 and 2).

General study of fruits with particular reference to the home orchard sites, soils, propagation, planting, pruning, spraying, and varieties.

Text-book: The Principles of Fruit Growing—Bailey.

Required equipment—One pair hand pruning shears.

HORTICULTURE 2—Olericulture—Semester 2. (Hagan).
Junior 1: (1 and 2.)

Principles and practices relative to the production of vegetables for home use. Construction and management of cold frames and hotbeds. Practical work in planting and caring for a garden.

Text-book: Vegetable Gardening—Watts.

HORTICULTURE 3—Systematic and Commercial Pomology—Semester 1 (Hagan)
Senior I, Elective: (2 and 2)
Systematic—1st half 1st Semester.
Commercial—2nd half 1st Semester

Systematic includes the classification, description, and nomenclature of native and sub-tropical fruits; identification with reference to relationship and natural classification of varieties and judging and displaying of fruits.

Textbook: Systematic Pomology—Waugh.

Commercial deals with practical problems pertaining to fruit growing; establishment and management of large commercial orchards, inter-cropping, cover crops, marketing, etc. Commercial orchards visited.

Text-book: Productive Orcharding—Sears

Required equipment: One pair pruning shears, saw, and budding knife.

HORTICULTURE 4—Small Fruits—Semester 2. (Hagan).
Senior 1, (Elective except for Horticultural Majors) (2 and2)

Propagation, culture, harvesting and marketing of the blackberry, dewberry, grape, raspberry, strawberry, and other small fruits.

Text-book: Productive Small Fruit Culture—Sears.

HORTICULTURE 6—Landscape Gardening—Semester 2 (Newman)
Senior 1 Elective: (2 and 2)

A study of the principles of landscape art with reference to the improvement of home and school grounds and park areas. Mapping, designing and a study of decorative plants, their identification and adaptation to landscape work

Text-book: To be selected.

HORTICULTURE 7, 8—Truck and Market Gardening—Semester 1 and 2 (Newman)

Senior 1 **Elective**: (2 and 2)

Principles and practices of commercial vegetable growing on a large scale as well as forcing crops in the greenhouse and in frames. Special attention is given to the trucking practices in this State, with particular reference to the development and management of truck farms and market gardens, planting, cultivation, fertilization, harvesting, grading, and marketing.

Text-book: Garden Farming—Corbett.

HORTICULTURE 9—Floriculture and Greenhouse Management. Semester 1 (Hagan)

Senior 1 Elective (2 and 2)

A general study of floriculture and greenhouse management, including flower soils, cuttage, potting, planting, execution of simple designs, and floral decoration.

Text-book: Floriculture—White.

HORTICULTURE 10—Thesis—Semester 2

Senior 1

Special subject requiring independent investigations by students specializing in Horticulture. Results submitted in written form.

HORTICULTURE 101, 102—Fruit and Vegetable Growing—Semester 1 and 2 (Hagan)

Two-year Agr. XII: (2 and 2)

First semester devoted to the growing of fruits for home use, and includes a study of orchard sites, planting, propagation, pruning, and spraying In the second semester the principles and practices involved in the growing of vegetables for home use are taken up. A garden is planted and cared for by the students

Text-book: Horticulture—Davis

Required Equipment: 1 pair of hand pruning shears

Division Rooms and Equipment

The division is well equipped with orchards, greenhouses, gardens, vineyards, and a modern cannery. The facilities for instruction purposes include ample lecture rooms, laboratories, and practice workhouse thereby making it possible for the division to offer prospective students in Horticulture excellent opportunities for pursuing a course in Horticulture.

MATHEMATICS

Professor Martin

Associate Professor Shanklin

Assistant Professors Hunter and Johnstone

MATHEMATICS 1, 2—Mathematics for Agriculture and General Science—Semesters 1 and 2. (Shanklin, Hunter, Johnstone)

Freshman: I, III, IX Elective, III: (3 and 0)

Prerequisite: Algebra through quadratics, Plane and Solid Geometry.

This course embraces the study of graphical representation of statistical data, logarithms, plane trigonometry, statics, small errors, contic sections, empirical equations, progressions, annuities, averages and correlation.

Text-book: "Mathematics for Agriculture and General Science" —Kenyon and Lovitt.

MATHEMATICS 3, 4—Third-Year Mathematics—Semesters 1 and 2. (Shanklin, Hunter, Johnstone)

Freshman: II, IV, V, VI, VII, VIII: (5 and 0)

Prerequisite: Algebra through quadratics, Plane Geometry.

This course embraces the study of algebra, trigonometry, and solid geometry. This course aims to teach in combination mathematical topics which are naturally closely related to each other.

Text-book: "Third-Year Mathematics"—Breslich.

MATHEMATICS 5—Analytic Geometry—Semester 1. (Martin, Shanklin, Hunter, Johnstone).

Sophomores: II, III, IV, V, VI, VII, VIII, IX: (4 and 0)

Prerequisite: Mathematics 3, 4.

This course comprises a study of cartesian and polar systems of coordinates, discussion and construction of loci, the straight line transformation of coordinates, the circle, parabola, ellipse, hyperbola, general equation of second degree involving two variables, tangents and normals, higher plane curves, equation of the plane, the straight line in space, and surfaces of the second order.

Text-book: "Analytic Geometry"—Wilson and Tracy.

MATHEMATICS 6—Differentials Calculus—Semester 2. (Martin, Shanklin, Hunter).

Sophomores: II, III, IV, V, VI, VII, VIII, IX: (4 and 0.)

Prerequisite: Mathematics 5.

A study of the differentiation of algebraic and transcendental functions, successive differentiation and development of functions, functions of two variables, tangents, normals, and asymptotes, applications of the derivative in mechanics.

Text-book: "Differential and Integral Calculus"—Osborne.

MATHEMATICS 7—Integral Calculus—Semester 1. (Martin, Hunter).

Juniors: II, IV, V, VII, VIII, IX Elective: (3 and 0).
Prerequisite: Mathematics 6.

This course in integral calculus gives instruction in elementary forms of integration, integration of rational fractions, the definite integral, successive reductions, integration of functions of two variables, geometric applications, multiple integrals, and practical problems arising in engineering subjects.

Text-book: "Differential and Integral Calculus"—Osborne.

MATHEMATICS 101, 102—Algebra and Geometry—Semesters1 and 2. (Johnstone)

Two-year Agr. XII: (4 and 0).
Prerequisite: Arithmetic completed, elementary algebra.

The first semester is devoted to the study of algebra through quadratic equations and the second semester to plane geomery.

Text-books: Text-book in Algebra"—Wells, "Plane Geometry,, —Wells.

MECHANICAL ENGINEERING

Professor Earle

Associate Professor Carpenter

MECHANICAL ENGINEERING 1, 2.—Mechanics—Semesters 1 and 2. (Still)

Junior IV, VI, VII, IX. (Elective) (3 and 0)
Prerequisites: Mathematics, 6, and Physics 5, 6.

The subjects taught are composition and resolution of forces; solution of force systems; couples; centeroids and centers of gravity; friction; moment of inertia; rectilinear motion; curvilinear motion; rotation; combined translation and rotation; work and energy; impulse, momentum, impact.

Text-book: Hancock's "Applied Mechanics for Engineers," revised and rewritten by N. C. Riggs.

MECHANICAL ENGINEERING 3—Mechanics—Semester 1. (Still)

Junior II, V: (3 and 0)
Mathematics 6 and Physics 1, 2.

This course is similar to Mechanical Engineering 1, 2, but is arranged to suit the needs of students in Courses II and V, and precedes Strength of Materials and Graphic Statics.

MECHANICAL ENGINEERING 4—Mechanical Engineering—Semester 2. (Carpenter)

Junior IV, V, VI, VII, VIII. (3 and 2)
Prerequisite: Mathematics 7

A general survey of the field of power engineering, taking up the essentials for the production of power, and the principles governing the action of varous mechanical motors, and the comparison of their performance. Steam power includes fuels, combustion, theory of steam generation, boilers, boiler auxiliaries, steam turbines, auxiliaries for steam engines and turbines and the testing of steam power equipment. Gas power includes a study of internal combustion engines together with their fuels, gas producers and various auxiliaries connected with internal combustion engine power plants.

Application of steam and gas power to locomotives, automobiles, trucks, and tractors.

Introductory to Mechanical Engineering and embracing, (a) the study of calibration of leading types of instruments and apparatus used in mechanical engineering, and (b) elementary tests of materials and machinery.

Text-books: Potter and Calderwood's "Elements of Steam and Gas Power Engineering." Moyer's "Power Plant Testing."

MECHANICAL ENGINEERING 5, 6—Mechanical Engineering— Semesters 1 and 2. (Earle)

Senior VII. Semester 1. (5 and 4), Semester 2 (5 and 5)
Prerequisite: Mechanical Engineering 4.

First semester: Thermodynamics of gases, steam, etc. In this is taken up heat and heat power plants, laws of gasses; expansion and compression, entropy, gas and vapor cycles, properties of steam power, efficiency and performance of engines, both theoretical and actual, and methods of increasing the efficiency of the actual steam engine; steam engine parts, and types of steam engine governors, valve gears of steam engine, indicator diagrams for both simple and compound engines, performance of steam engine.

Second semester: Thorough study of steam turbines, including design; external and internal combustion engines, fuels, combustion, boilers, superheaters, draft and draft apparatus, utilization of waste heat, heat transfer, gas producers, producer gas, feed water heaters, condensers and auxiliaries; purification of water, power plants, compressed air, refrigeration. During the whole course many problems covering principles involved are worked out. A graded series of experiments upon the quality of lubricants, strength of engineering materials, and operating characteristics of representative types of steam, internal combustion, and hydraulic machinery. During the second semester a number of elaborate and highly technical experimental problems are undertaken, problems of special interest to the mechanical engineer.

Text-books: Hirshfield and Barnard's "Elements of Heat Power Engineering." Moyer's "Power Plant Testing."

MECHANICAL ENGINEERING 7, 8—Mechanical Engineering— Semesters 1 and 2. (Earle)

Senior VI. (3 and 2).

Prerequisite: Mechanical Engineering 4.

First semester: Study of thermodynamics of gasses, properties of steam, entropy, valve gears, indicators, losses in engines, compound engines, superheated steam and its application, steam jackets, and injectors.

Second semester: Condensers, feed water heaters, governors, turning efforts on crank shaft, fly wheel design, study of details of engines, balancing of engines, performance of engines, locomotives, steam turbines, their application of design, refrigeration, and ice plants, power plant auxiliaries.

Laboratory similar to that given in Mechanical Engineering 5, 6.

Text-books: Ripper's "Steam Engine, Theory and Practice." Moyer's "Power Plant Testing."

MECHANICAL ENGINEERING 9, 10—Mechanical Engineering— Semesters 1 and 2. (Earle.)

Senior V: Semester 1 (3and 2) Semester 2 (3 and 0)

Prerequisite: Mechanical Engineering 4.

This course is very similar to Mechanical Engineering 4 except that the laboratory work is curtailed and suited more to the needs of the civil engineer.

Laboratory similar to that given in Mechanical Engineering 5, 6.

Text-books: Ripper's "Steam Engine, Theory and Practice." Moyer's "Power Plant Testing."

MECHANICAL ENGINEERING 11—Mechanical Engineering— Semester 1. (Carpenter)

Senior IV, VIII; (3 and 2)

Prerequisite: Mechanical Engineering 4.

This course is designed to briefly cover the fundamentals of mechanical engineering most necessary for the textile and chemical engineer to know. The course is somewhat similar to Mechanical Engineering 7, 8 but shorter.

Text-books: Ripper's "Steam Engine, Theory and Practice." Moyer's "Power Plant Testing."

MECHANICAL ENGINEERING 13—Design—Semester 1: (Carpenter)

Senior VI. (0 and 2)

Prerequisites; Drawing 18, Mechanical Engineering 4.

This course is similar to Mechanical Engineering but briefer and especially arranged for electrical engineering students.

MECHANICAL ENGINEERING 14—Design—Semester 2. (Carpenter)

Senior VII (0 and 2)

Prerequisites: Drawing 18, Mechanical Engineering 4.

An analytical and graphical study of the fundamental principles of construction of various classes of certain machinery such as the steam engine, pumps, steam turbines, etc., by the solution of certain problems in design.

Division Rooms and Equipment

The laboratory is situated on the ground floor of the engineering building, and occupies a room 37 feet by 108 feet, a room 37 feet by 32 feet, a room 37 feet by 50 feet, and a room 37 feet square and contains the following equipment:

For Steam Engineering.—One 15 hp. horizontal locomotive type boiler; one 6 hp. Erie, plain slide valve steam engine, throttling governor; one 5 vertical engine built by students; one 15 hp. Payne high speed automatic cut off engine; one 40 hp. McEwen engine designed to give very close regulation of speed; one Corliss cross compound engine, aranged to run either condensing or noncondensing and with either or both cylinders with high pressure steam; one 7 kw. Curtis steam turbine non-condensing, direct connected to a two pole interpole direct current compounded generator, with necessary switchboard and instruments; one Wheeler surface condenser, with combined air and circulating pumps; one separately fired Foster superheater; one set steam gauge testing apparatus; one Carpenter's separating calorimeter; two Carpenter's throttling calorimeters; six steam engine indicators of various makes; four injectors; two draft gauges; seven steam gauges.

For Hydraulic Engineering.—One DeLaval centrifugal pump 100 g. p. m. against 100 feet head; one power triplex pump; one Pelton water motor; one hydraulic ram; three duplex pumps of different makes; one gear pump; two weirs; two hook gauges.

For Compressed Air.—One Clayton air compressor, water jacketed; one improved air motor; one Sirroco blower direct connected to D. C. variable speed motor.

For Fuel and Lubricants.—One Carpenter's coal calorimeter with scales, balances and oxygen generating device; one standard viscosimeter; one Thurston friction tester.

For Testing Materials.—One 100,000 pound Olsen automatic vertical testing machine driven by 5 hp. Westinghouse electric motor and fitted for either tension or compression; one Fairbank's cement testing machine; one Vicat needle with proper sieves and moulds; graduated flasks for determining specific gravity; moist closet for storage; drying oven with thermostatic control; one steaming closet; one 3,000-pound transverse testing machine; one 60,000-pound Olsen torsion testing machine; one impact testing machine; one extensormeter; compressor meter, and torsion meter.

For Gas Engines.—One 5hp. Otto gasoline engine; one 7 hp. Alamo gasoline engine, and Delco outfit, one 3 hp. Meitz and Weiss oil engine.

Miscellaneous.—One 6 hp. transmission dynamometer, graduated to read horse-power direct and built by students; five platform scales; four spring balances; seven mercury thermometers; one electrical resistance thermometer; two Bristol thermo-couples for reading temperatures to 2,000 and 2,900 degrees respectively; planimeters. All apparatus is so arranged that it may be used for separate or combined tests. Besides the apparatus in this room, the apparatus in the power station, pumping station and refrigeration plant are available for instruction and tests. For lists of equipment see description of buildings.

MILITARY DEPARTMENT

Major Pearson, Professor

Captain Lee, Assistant Professor

Captain Braden, Assistant Professor.

Captain Roderick Assistant Professor

Captain May, Assistant Professor

Captain Durfee, Assistant Professor

Lieutenant Cobb, Assistant Professor.

Lieutenant Emery, Assistant Professor

MILITARY SCIENCE 1, 2.—Military Science and Tactics,
Freshman Class, All Courses: (0 and 3)

Infantry Drill Regulations; Close and extended order; Ceremonies.

Rifle Marksmanship: Nomenclature and care of rifle; Gallery practice; Range Practice.

Scouting and Patrolling: Principles governing composition, formation, and operation.

Physical Training: Setting-up exercises; Mass Games; Mass Athletics.

Military Courtesy. Principles of Military discipline; The military courtesies of the Army of the United States.

MILITARY SCIENCE 3, 4—Military Science and Tactics
Sophomore Class, All Courses: (o and 3)

Map reading and military sketching; visibility problems ,reading of maps making of maps.

Infantry Weapons, the bayonet, the automatic rifle, hand and rifle grenade.

Musketry, weapons of infantry squad; range estimation, fire discipline, fire control, control of movement, conduct of fire in the attack and the defense, combat practice.

Command and leadership, exercise of command appropriate to non-commissioned officers.

Military hygiene, sanitation and first aid, personal hygiene; first aid to injured, cause of disease, selection and protection of drinking water.

MILITARY SCIENCE 5, 6—Military Science and Tactics. Semesters 1 and 2.

Junior Class, R. O. T. C. (2 and 3)

Field Engineering, trenches, obstacles, shelters, machine gun emplacements, observation posts, working parties, concealment and camouflage.

Accompanying weapons; machine gun, 37 millimeter (one-pounders,) the light mortar.

Military Law and Rules of Land Warfare, definition, sources and kinds military jurisdiction, classification and composition courts, exercise of military jurisdiction, persons subject to military law, articles of war explained, procedure before trial, procedure of courts-martial, evidence, sentences, punishment without trial, rules of land warfare, moot court exercises.

Command and leadership, exercise of command appropriate to grades of Sergeant and Lieutenant.

Infantry drill regulations, the battalion and the regiment.

MILITARY SCIENCE 5a, 6a—Military Science and Tactics.—Semester 1 and 2.

Junior Class, Non-R. O. T. C. (0 and 3)

Same as Course 5, 6 but covering only three-fifths of the work.

MILITARY SCIENCE 7, 8—Military Science and Tactics.—Semesters 1 and 2.

Senior Class R. O. T. C. (2 and 3)

Tactics, general view of the organization and conduct of the battalion and higher units, principles governing the organization; armament, equipment, and conduct of the rifle, machine gun, Howitzer, and headquarters companies in offensive and defensive combat, tactical principles governing the conduct of the platoon and smaller units in offensive and defensive combat, principles governing the employment and details of the conduct of covering detachments in open and position warfare, exercises and problems on sand table, map and terrain.

Military history, American military history including the World

War; the sources of authority for our military establishment; development of the military resources; the state of national preparedness for war at a critical period in the history of the United States; the cost of American wars in relation to national unpreparedness.

Administration; preparation of papers pertaining to the administration of a company.

Command and leadership; exercise of command appropriate to the grades of Sergeant and Lieutenant.

Pistol marksmanship.

MILITARY SCIENCE 7a, 8a—Military Science and Tactics.—Semester 1 and 2.

Senior Class, Non-R. O. T. C.: (0 and 3)

Same as Course 7, 8 but covering only about three-fifths of the work.

MODERN LANGUAGES

GERMAN 1, 2.—(Doggett, Lippincott)

Junior Class; Course IX, (Elective)

The essentials of German grammar; collateral reading; conversation.

Text-book: Bacon's "New German Grammar."

Course IX: Three periods per week throughout the session.

GERMAN 3,4—(Doggett.)

Senior Class; Courses IX (Elective)

German prose composition; study of German words and idioms; German-English cognates; translation of literary and scientific German; conversation.

Text-books: Bacon's "German Composition." Manley-Carl Schurtz's "Lebenserinnerungen," or texts of equal difficulty; Wallentin's "Grundzuge der Naturlehre."

Two periods per week throughout the session.

FRENCH 1.— ( )

Junior Class; Course IX. (Elective)

The essentials of French grammar; collateral reading; translation of easy French prose; French prose composition.

Three periods per week throughout session.

FRENCH II ( )

Senior Class; Courses IX (Elective)

French syntax; French verbs; French idioms and prepositions; translation of literary and scientific French.

Text-books: Cortina's French Method; De Nonvert's La Belle France; Herdler's Scientific Reader.

Two periods per week throughout the session.

SPANISH I. (Oakes)

Junior Class; Course IX (Elective)

This course is an introduction to the Spanish language consisting of drill in grammar, translation from Spanish into English and from English into Spanish, and conversation. Emphasis is laid on pronunciation, accent, and idiom.

Text-books: "A Spanish Grammar" by Hills and Ford, and "A Spanish Reader" by Bransby.

Three periods per week throughout the session.

SPANISH II. (Oakes)

Senior Class; Course IX (Elective)

This is a continuation of Spanish—I with the addition of more reading and conversation. It takes up also a study of pamphlets, bulletins and books concerning the Latin-American countries, especially from an industrial and commercial point of view.

Text-books: The same as in Course I and a Spanish newspaper.

Two periods per week throughout the session.

During the session 1920-21 work in Spanish was given extra-curricula to students in all courses who elected to take it, provided that they could do so without interference with their regular work. Applications were passed upon by the committee on re-examination and promotions.

PHYSICS

Professor Godfrey

Assistant Professor Hodges

Assistant Professor Sherman

PHYSICS 1, 2—General Physics—Semesters 1 and 2. (Godfrey and Sherman).

Freshman: II, IV, V, VI, VII, VIII: (2 and 2).

Prerequisite: Entrance mathematics: Entrance physics 1 unit.

This is an introductory course in general physics for engineering students. Its object is to make the student familiar with the fundamental principles of physics and to lay the foundation for subsequent work. Mechanics, heat, light, electricity, and magnetism are studied with emphasis upon the problem work. In the laboratory elementary quantitative experiments in these subjects are assigned. Mimeographed notes are used, and such accuracy as the conditions permit is insisted upon so that the student may acquire some idea of modern experimental methods. The cure plotting method of showing results is taught.

PHYSICS 1a, 2a—General Physics—Semesters 1 and 2. (Hodges)
Freshman: II, IV, V, VI, VII, VIII: (2 and 2).
Prerequisite: Entrance mathematics.

This course is similar to that described above, but does not require high school physics as a prerequisite. The laboratory course is the same but the study of light and a part of electricity is omitted in the class room work so that sufficient time may be given to mechanics.

PHYSICS 3, 4—Principles of Physics—Semesters 1 and 2. (Hodges)
Sophomore: I, III, IX: (2 and 2)
Prerequisite: Mathematics 1, 2.

This is a general course in college physics arranged particularly to meet the needs of students in agriculture and chemistry. The physical laws in mechanics, heat, light, electricity, and magnetism are studied with reference to their application in these courses. Particular attention is given to the properties of matter and to the principles of operation and adjustment of instruments used in later work in physical chemistry and agriculture. Directions for the experiments assigned are given in mimeographed notes.

PHYSICS 5, 6—College Physics—Semesters 1 and 2. (Godfrey and Hodges).
Sophomore: IV, V, VI, VII: (3 and 0)
Prerequisite: Physics 1, 2; or 1a, 2a and Mathematics 3, 4.

This course is a continuation of physics 1, 2 for engineering students. Lectures with demonstrations are given covering the fundamental principles given in the text, and the assigned problems are chosen with special reference to the application of physical laws in engineering work. The course covers the subject mattter of the text with the omission of the chapter on sound.

Text-book: "General Physics"—Ferry.

PHYSICS 7, 8—Laboratory Physics—Semesters 1 and 2 (Godfrey and Sherman).
Sophomore: IV, V, VI, VII, VII: (0 and 2.)
Prerequisite: Physics 1, 2: or 1a, 2a and Mathematics 3, 4.

This work includes careful quantitative measurements in mechanics, heat, light, electricity, and magnetism. It is the equivalent to that described in the average college manual of physical measurements. The student is required to understand the fundamental principles involved in the experiments and to show by his results some skill in physical manipulation and careful method in the calculations required. In much of the work he is thrown upon his own resources and expected to develop some confidence in the correctness of his work. The report includes some discussion of the limitations of the method used and its accuracy. To accompany Physics 5, 6.

Text-book: Mimeographed notes.

PHYSICS 9, 10—Advanced Physics—(Godfrey and Hodges).

Junior and Senior: IX, (Elective): (3 and 2)

Prerequisite: Physics 5, 6, 7, 8.

This course is for students specializing in Physics on topics selected to suit the plans of the students taking it for either advanced engineering or graduate work in science. A careful study of only a few topics is attempted. Projects in molecular physics, vectorial mechanics, thermodynamics, radiation, and electro-magnetic waves are suggested. Special facilities are available for experiments with spark discharge, damped and undamped electric waves and various types of oscillating circuits.

PHYSICS 11, 12—Principles of Physics. (Godfrey and Sherman)

Junior and Senior: IX: (2 and 2.)

Prerequisite: Physics 3, 4, or the equivalent.

Students intending to teach are given a course covering the fundamentals of general Physics with suggestions regarding methods of presentation and demonstration, organization of laboratory work, and objects to be sought in teaching elementary physics or general science. The laboratory work is a continuation of the sophomore course with more advanced experiments. A wide choice of experiments is given so that the course, while primarily intended for teachers, is also suited to the needs of students in general science not intending to teach.

Text-book: "College Physics"—Kimball.

PHYSICS 14—Elementary Descriptive Astronomy—Semester 2. (Godfrey).

Junior: V: (0 and 1)

Prerequisite: Physics 5, 6 and Mathematics 5, 6.

This is a brief course in general astronomy arranged with special reference to the work of civil engineers. The motions of the heavenly bodies are studied and some time is given to the general facts of descriptive astronomy.

Text-book: "Elements of Astronomy"—Young.

Division Rooms and Equipment.

The Physics Division is located in the Academic Building and occupies four connecting rooms. The lecture room is 33 by 33 feet, and seats a class of sixty. The three laboratory rooms are 27 by 33 feet, 24 by 33 feet, and 21 by 27 feet, the latter being a basement room. Provision is made for gas, water, light, and power in all these rooms. The division is provided with a great variety of apparatus for both lecture and laboratory purposes. Additions are made each year to the equipment in laboratory and lecture demonstration apparatus. The facilities of the large Radio Broadcasting Station are also used by the Physics Division.

RURAL SOCIOLOGY

Professor Mills.

RURAL SOCIOLOGY 1—Rural Sociology—Semester 1. (Mills)
Senior 1, Elective: 3 and 0)

Its definitions, origin, purpose, methods. The relation of rural sociology to scientific agriculture.

The growth, maintenance, and decline of the rural community. The psychology of rural life; its isolation, contact with nature, etc.

Text-book: "Rural Sociology"—Gillette.

RURAL SOCIOLOGY 2—Literature of Rural Life—Semester 2. (Mills)
Senior 1, Elective: (2 and 2)

This course will develop the aesthetic element in agriculture, and will view its practice as a fine art. It will make the student familiar not only with the literature of country life, but with the lives of the great men of the country, farmers, breeders, horticulturists, teachers, preachers, etc.

Careful and detailed studies of the country life of South Carolina, county by county, by means of census reports, and special State and Federal reports, and of such subjects as tenancy, illiteracy, wealth production, wealth retention, charity, amusements, etc.

RURAL SOCIOLOGY 100—Elements of Rural Sociology—Semester 2. (Mills)
Two-Year Agr. XII: (2 and 2)

An elementary course in Rural Sociology with special attention to the country life of South Carolina. Tenancy, health, the rural school, the rural church, and rural recreation are some of the topics studied. The object is to acquaint the student with problems he is likely to confront in his own community.

SHOP WORK

Associate Professor Johnson

Associate Professor Shubert

Assistant Professor Marshall

SHOP WORK 1, 2—Forge Work—Semesters 1 and 2. (Johnson)
Freshman IV, V, VI, VII, VIII: (0 and 2)

This course embraces all the fundamental principles of forge work, such as, drawing out, upsetting, bending, shouldering, punching and welding in iron and mild steel.

During the first semester the work is done in wrought iron and mild steel and each exercise is carefully explained and demonstrated by the instructor, with full discussion by student and teacher.

The second semester is devoted to tool making and tempering steel. Special lectures are given on the manufacture and handling of iron and tool steel, and with emphasis on making, grinding and polishing tools.

Eachs student is supplied with working drawings and a complete outfit for doing the work on the plan that is found in any good commercial plant.

SHOP WORK 3—Forge Work—Semester 1.—(Johnson)
Freshman II: (0 and 2)

This course is identical with shop work 1 for the first semester.

SHOP WORK 5, 6—Forge Work—Semesters 1 and 2. (Johnson)
Freshman I, III, IX: (0 and 2)

This course is identical with shop work 1 for the first semester. During the second semester, the work as more directly related to the upkeep of a farm is given, such as repairs on machinery and farm equipment, special attention being given to welding and brazing in the open fire.

SHOP WORK 7, 8—Foundry—Semesters 1 and 2. (Johnson)
Sophomore VI, VII, VIII: (0 and 2)

This course is designed to give the student a comprehensive idea of the principles of foundry practice, as related to the trades, and the importance of this branch of industry, as to its relation to engineering work.

The first semester is taken up with such things as moulding sands flasks and the use of the tools used in the trade, various plain moulding from simple patterns, ramming, gating, venting and facing moulds.

The second semester covers the mixing of metals, melting and pouring moulds, core making and its connection with foundry practice, also, notes and talks on the physical and chemical properties of the various ferrous metals. A portion of this time is spent with brass work, dealing with all of the non-ferrous metals.

SHOP WORK 9—Industrial Arts—Semester 1. (Johnson)
Junior IX. (0 and 2)

Work is given covering the fundamentals underlying foundry practice, such as tempering sand, mixing facings, making dry sand cores, and making iron and brass in green sand.

SHOP WORK 11.—Industrial Arts.—Semester 1. (Johnson)
Junior IX. (Elective): (0 and 2)
Prerequisite Shop Work 9.

This course is devoted to the history of foundry practice, the study of cupola construction, mixing metals, classification of patterns, and the methods of handling foundry work in the shop.

Text-book: Richard's "Elementary Foundry Practice" supplemented with notes and talks.

SHOP WORK 13, 14—Machine Shop. Semester 1 and 2. (Shubert)
Junior VI, VII, Semester 1. (0 and 5) Semester 2 (0 and 3)
Prerequisite: Shop work 2, 8.

This course begins with chipping, filing, and scrapping, which involves the use of the lay-out-table, surface gage, center punch, hammer, file, chisel, scraper, surface plate, square, and straight edge, which concludes the term of bench work.

The students then take up the various operations on machine tools, which have been previously demonstrated by the instructor. All measurements of machine tool operations come to very close limits.

In this course the student is given a practical working knowledge of machine shop tools, and of directing machine shop work efficiently. One hour of the weekly period is used by the instructor in demonstrating all operations together with talks on uses and care of precision tools. This is to familiarize the student with the difficulties that arise in his practical machine shop work.

SHOP WORK 15—Machine Shop. Semester 1. (Shubert) .
Junior V; (0 and 3)
Prerequisites: Shop work 2, 8

Essentially the same as shop work 13, 14 but less extensive.

SHOP WORK 17, 18—Wood Work—Semesters 1 and 2. (Marshall)
Freshman IV, V, VI, VII, VIII: (0 and 2)

This course includes both bench and lathe work and is designed to familiarize the student with tools and machinery commonly used in wood work. The latter part of this course is devoted to the study of the best methods of finishing.

Text-book: Lefax Note Book.

SHOP WORK 19—Wood Work.—Semester 1.—(Marshall)
Freshman II: (0 and 2)

This course is identical with Shop work 17 for the first semester.

SHOP WORK 21, 22—Pattern Making—Semesters 1 and 2. (Marshall)
Sophomore VI, VII: (0 and 2)
Prerequisite: Shop work 18.

This course consists of exercises in pattern making with special reference to the principles involved. It is planned to outline to the student a general survey of the most suitable materials, the special tools, and the fundamental processes of the trade, together with the relations of the allied departments—particularly those of the foundry. The student is required to make, from machine drawings, full sized patttern drawings, making the necessary allowances for finish, shrinkage and draft. The course is further illuminated by lectures on the metal trades and the manufacture of iron products, so that the pupil learns exactly what part pattern-making plays in the commercial world.

Text-book: "Wood Pattern Making."

SHOP WORK 23, 24—Industrial Arts—Semester 1 and 2. (Marshall)
Junior IX: (Elective) (0 and 2)

This course is designed for students who wish to teach manual training. Special emphasis is laid on good form in the use of wood working tools and machinery. The course is more intensive and more exacting than that required of the regular engineering students.

A proportional part of the course is given to the study and application of the latest and best finishes, including varnishes, stains, enamels, paints and polychrome.

SHOP WORK 25, 26—Industrial Arts—Semesters 1 and 2. (Marshall)
Senior IX: (Elective) (0 and 2)
Prerequisite: Shop work 14.

This course includes lectures and assigned work in advanced cabinet work and pattern making. Some time is given in practice teaching and observation, each student being assigned as assistant in some of the shop classes throughout the entire session.

SHOP WORK 101—Forge Shop—Semester 1. (Johnson)
Two-Year Agr. XII: (0 and 2)

A course devoted to problems encountered in the upkeep of the farm. Exercises in tempering, riveting, plow sharpening, and repairs to farm machinery are given.

SHOP WORK 102.—Wood Shop—Semester 2. (Marshall)
Two-Year Agr. XII: (0 and 2)

The aim of this course is to teach the fundamentals of wood work as applied to construction and repair on the farm. The students are given practice in the use of saws, planes, chisels, and other common tools.

Equipment

The **Forge Shop** occupies a room 37 by 98 feet. The equipment is installed under two separate systems. One system consists of 18 Buffalo down-draft forges; 18 Hay Budden anvils equipped with all necessary small tools; a 60-inch exhaust fan; a No. 4 direct-connected pressure blower; a drill press; an emery grinder; a bending cone; a Buffalo iron shear; two swage blocks; a vise and work bench. The other system consists of 18 Sturtevant down-draft forges; 18 Hay Budden anvils thoroughly equipped with small tools; a 60-inch exhaust fan, direct connected; and a blackboard for special drawings.

The **Foundry** occupies a space of 43 by 76 feet, and is free from posts and other obstructions. It is equipped with a 26-inch Victor Colliau's cupola; a No. 7 pressure blower; a Millett core oven; a large Paxon brick core oven; a two-ton post crane; tools for eighteen students; also a case of special tools, a full equipment of hand, bull, and truck ladles and a full line of foundry flasks.

The brass foundry is equipped with an 18-inch furnace; a drying stove; clamps, flasks, tongs, and graphite crucibles for making and pouring molds. Also one Ferro-fix brazing machine with full equipment for doing diversified cast iron brazing.

The **Machine Shop** occupies the ground floor and part of the basement of the southwest wing of the engineering building, the main floor being 45 by 100 feet. The equipment consists of the following: suitable benches and vises for chipping, filing, and assembling of machines, one 18-inch by 12 foot engine lathe, one 18 inch by 8 foot engine lathe, eleven 14 inch by 6 foot engine lathes, one 14 inch by 8 foot speed lathe, five direct motor drive 14 inch by 5 foot engine lathes, two universal milling machines, one 22 inch by 6 foot planer, one 14 inch shaper, one 10 inch slotter, one 10 inch by 30 inch universal grinder, one universal tool and cutter grinder, one twist drill grinder, one 18 inch floor grinder, two 9 inch floor grinders, one 36 inch wet floor grinder, one 28 inch vertical drill press, one 18 inch vertical drill press, one power hack saw, one down draft forge equipment, one oil burning tempering furnace, a tool room containing hand tools, gages and fixtures.

The **Wood Shop** division consists of two shops. The instructional shop is devoted to class room work for freshman and sphomore students. The class room measures 50 by 100 feet and contains thirty-two speed lathes, fully equipped; fifty work benches, each supplied with a full set of tools; one universal saw; one bench joiner and planer; one band saw; one jig saw; one motor-driven disc sander; two oil stone grinders; one shaper and carving machine; one universal trimmer; all machines and tools being of the latest approved design for class room work in wood work and pattern making. This class room is served by a convenient stock room, and tool room.

The commercial wood shop is equipped with planing mill machinery consisting of a double rool planer, one rip saw, one cross cut table saw, one swinging cut off saw, one lathe with twelve foot bed, one joiner, one molding machine, one double headed shaper, one mortising and boring machine, one swinging arm sand papering machine, and an asortment of benches, clamps, glue pots, etc. This shop is 40 x 100 feet and is driven by a 20 hp. electric motor. A lumber shed and steam dry kiln adjoin.

TECHNOLOGY OF FABRICS

Professor McSwain

Assistant Professor Cheatham

TECHNOLOGY OF FABRICS 1—Fabric Construction—Semester 1. (McSwain)

Sophomore VIII (2 and 0)

A study of yarns used in fabrics. Yarn calculation. Classes of textile fabrics. Classes of woven fabrics. Method of representing weaves. Weaves used in standard fabrics. Diameters of yarns. Maximum ends and picks per inch. Effect of yarn twist. Shrinkage and take-up. Reed calculations. Air space and ends per dent in reeds. Cloth calculations.

Text book: McSwain's notes on Technology of Fabrics.

TECHNOLOGY OF FABRICS 2—Elementary Design—Semester 2. (McSwain)

Sophomore VIII: (2 and 0)

Prerequisite: Technology of Fabrics 1.

Production of designs representing derivative twills and satins, honeycombs, mock leno, granites, crepe, bedford cords, double cloth, pique, corduroy, velvet, and extra warp designs. Extra selvage motions, cam designing and top riggings.

Reference book: Posselt's Technology of Textile Design.

TECHNOLOGY OF FABRICS 3—Dobby Designing—Semester 1. (McSwain)

Junior VIII. (0 and 2)

Prerequisite: Technology of Fabrics 1, 2.

A study of pattern styles. Method of combining two or more weaves. Ratio of construction for different weaves in patterns. Laying out designs when either "ground" or "over-all" is given. Drawing in and chain drafts and reed plans. Point to start drawing warp. Reed, harness and warp calculations. Each student is required to produce ten designs from sketches and cloth specifications.

TECHNOLOGY OF FABRICS 5, 6—Fabric Analysis—Semesters 1 and 2 (McSwain)

Junior VIII: (0 and 2)

Prerequisite: Technology of Fabric 1, 3.

Methods of distinguishing between cotton, wool, silk and linen. Finding per cent of different fibers in fabrics. Determining amount of size in fabrics. Methods of finding yards per pound from small samples. Over-all and ground constructions. Per cent of warp and filling. Warp and filling numbers. Finding weave and looming plans. Each student is required to analize six samples the first semester and ten the second semester.

TECHNOLOGY OF FABRICS 7—Leno Designing and Warp Prepartion—Semester 1 (McSwain)

Senior VIII: (2 and 0)

A study of warping.and slashing for gray goods. Size mixtures. Humidity requirements. Color in fabric production. Methods of dressing colored warps. Loom beam dressing and warping layouts for colored warps. A study of cross weaving on cord and steel doups.

TECHNOLOGY OF FABRICS 8—Jacquard Designing—Semester 2. (McSwain)

Senior VIII: (0 and 4)

Senior VIII:

A study of the different types of Jacquard machines. Types and methods of harness building. Laying out designs for different tie ups. Card cutting and lacing. Method of repeating and machine lacing. Each student will be required to make one design for a specified tie-up and to prepare cards therefrom.

TECHNOLOGY OF FABRICS 10—Weave Room Methods—Semester 2 (McSwain)

Senior VIII: (3 and 0)

Organization and laying out of weave room machinery. System of keeping records on typical styles of fabrics. Cost finding for different types of fabrics. General weave room management.

TECHNOLOGY OF FABRICS 11.—Plain Weaving—Semester 1. (McSwain)

Sophomore VIII: (0 and 2)

Instruction in the operation of automatic and non-automatic looms. Drawing in warps. Warping, winding and slashing.

TECHNOLOGY OF FABRICS 12—Loom Fixing—Semester 2. (Cheatham)

Sophomore VIII: (0 and 2)

A systematic study of the motions of a loom. Setting and timing the parts with particular reference to economy in power and supplies. Multiple cam setting and production calculations.

Reference book : Nelson's "Loom Fixing."

TECHNOLOGY OF FABRICS 13, 14—Fancy Weaving—Semesters 1 and 2. (McSwain)

Junior VIII: (0 and 2)

Prerequisites: Technology of Fabrics 11, 12.

This course is a combination of practical weaving and loom fixing on dobbies and box looms. A study of dobby harness setting for various types of patterns. A detailed study of dobbies and box motions, and practice in building dobby and box pattern chains.

TECHNOLOGY OF FABRICS 16—Pattern Weaving—Semester 2. (McSwain)

Senior VIII: (0 and 4)

Practice in putting on dobby, box, and jacquard patterns which have been worked out by the students in courses 3, 7, and 8.

TECHNOLOGY OF FABRICS 18—Knitting—Semester 2. (McSwain)

Senior VIII: (0 and 2)

A study of flat and circular machines. Spring and latch needles. Guage and needles per inch. Functions of all parts of machines. Narrowing and widening. Splicing and reinforcing. Yarns for different guages. Yarn changes, building pattern chain for hose and half hose. Transferring and looping. Rib knitting. Changing the stitch. Finishing the hosiery.

TECHNOLOGY OF FABRICS 101—Designing—Semester 1. (McSwain)

Two-Year Textile XI: (2 and 0)

A modification of courses 1, 2, and 3.

TECHNOLOGY OF FABRICS 102—Designing—Semester 2. (McSwain)

Two Yea Textile XI: (2 and 0)

Same as course 3.

TECHNOLOGY OF FABRICS 103, 104—Weaving—Semesters 1 and 2. (McSwain)

Two-Year Textile XI: (0 and 4)

A modification of courses 11, 12.

TECHNOLOGY OF FABRICS 105—Fabric Analysis—Semester 1. (McSwain)

Two-Year Textile XI: (3 and 0)

Same as course 5.

TECHNOLOGY OF FABRICS 106—Jacquard Design—Semester 2. (McSwain)

Two-Year Textile XI: (3 and 0)

Same as course 8.

TECHNOLOGY OF FABRICS 107, 108—Weaving—Semesters 1 and 2. (McSwain)

Two-Year Textile XI: (0 and 4)

Prerequisite: Technology of Fabrics 103, 104.

Similar to course 16, but more extended.

Division Rooms and Equipment

The equipment for this division occupies three rooms on the top floor of the Textile Building besides one office and class room.

Knitting Room.—One "K" model Scott and Williams 220 needle hosiery machine; one Hemphill 200 needle "Banner" hosiery machine; one Brinton 176 needle ribber; one Jenckes 176 needle hosiery machine; one Wright Steady Dial looper; one 16-bobbin circular braider; one 13-bobbin flat braider; two Merrow overseaming machines; one 220 needle Banner knitting machine.

Warping and Winding Room.—One Davis and Furber dressing machine; one Entwistle beamer; one Draper ball warper; one Draper beam warper; one Lowell Machine Shop single cylinder slasher; one jack spooler; one Altemus quiller; one Payne skein winder; one Steele 2-drum quiller, one 4-spindle Universal "Leeson" No. 90 quiller.

Weave Room.—Seventeen 14-inch hand looms with 25 harness dobbies; one 40-inch Northop loom, 16-harness dobby; one 28-inch Northop loom, steel harness; three 40-inch Mason looms; one Crompton and Knowles 30-inch loom, 20 harness dobby and leno motion; one Crompton and Knowles 30-inch loom, 624-hook Holton Jacquard; one Crompton and Knowles 40-inch "Gem" loom, 4 by 4 box and 25 harness dobby; one Crompton and Knowles 26-inch terry towel loom, 3 by 1 box and 16-harness dobby; one Crompton and Knowles 64-inch damask loom, 4 by 1 box and 624-hook Jacquard; one Whitin 40-inch multiple cam loom; one Whitin 40-inch loom, 20 harness dobby; one 27-inch Whitin medium duck loom; two Kilburn and Lincoln 36-inch plain looms; one Crompton and Knowles 30-inch loom, 2 by 2 box and 16 harness dobby; one Crompton and Knowles 30-inch loom, 416-hook Jacquard and card multiplier; one "E" model 28-inch Draper loom, steel harness warp stop motion; one "E" model 28-inch Draper loom, two harness "string" warp stop motion; one "E" model 28-inch Draper loom, multiple cams and extra selvage motion; one "K" model 28-inch Draper loom; double filling fork, feeler and leno motion; one 40-inch "Ideal" Stafford loom, feeler and 624-hook C. & K. Jacquard; one 30-inch "Ideal" Stafford bag loom; one 40-inch "Ideal" Stafford loom, two harness; one four space, four bank, Crompton and Knowles narrow fabric loom, 416-hook Jacquard; one Crompton and Knowles 40-inch loom with 624-hook Jacquard; one Crompton and Knowles 30-inch 4 by 1 box loom with 20-harness dobby and leno motion; one Crompton and Knowles 30-inch 2 by 1 automatic box loom; one "E" model 40-inch Draper loom; multiple harness; 1 Hopedale Mfg. Co's 40-incch "Nordray" plain loom; one Royle French index, piano, card cutting machine; four drawing in frames and a complementary supply of reeds, combs. harnesses and pick gears.

TEXTILE CHEMISTRY AND DYEING

Professor Doggett

TEXTILE CHEMISTRY 1—Applied Chemistry— Semester 1.
Junior VIII: (2 and 2)
Prerequisite: Chemistry 1, 2.

The manufacture, uses, and technical analysis of the more important inorganic compounds used in the textile industry are studied.

The laboratory work in connection therewith consists in the preparation of a number of typical inorganic chemicals and of the standard volumetric solutions most frequently used.

Reference book: Knecht, Rawson and Rosenthal's "Manual of Dyeing."

TEXTILE CHEMISTRY 2—Organic Chemistry—Semester 2
Junior VIII: (2 and 2)
Prerequisite: Textile Chemistry I

After a general introduction a detailed study of the aliphatic series follows, including constitution and structural theory. Some attention will be given to the history of organic chemistry..

The laboratory work consists in the preparation of one or more organic compounds illustrating each group. Some time is also given to qualitative organic analysis. Special attention is given to the proper setting up and manipulation of apparatus.

Text book: Cohen's "Theoretical Organic Chemistry." Holleman's "Laboratory Manual of Organic Chemistry for Beginners.

TEXTILE CHEMISTRY 3—Organic Chemistry—Semester 1.
Senior VIII: (2 and 2)
Prerequisite: Textile Chemistry 2.

The aromatic series of organic compounds is studied, special prominence being given to the structure and preparation of synthetic dyestuffs and of the intermediate compounds from which they are made.

In the laboratory typical aromatic compounds illustrative of each group as well as a number of intermediates and dyestuffs are prepared.

Text-book: Cohen's "Theoretical Organic Chemistry."

Reference book: Cain and Thorpe's "Synthetic Dyestuffs."

TEXTILE CHEMISTRY 4—Dyeing—Semester 2.

Senior VIII: (0 and 4)

Prerequisite: Textile Chemistry 3.

This course includes the bleaching, dyeing, mercerizing, and printing of cotton. Some attention is also given to the dyeing of wool and of silk. The more important mordants are prepared and applied, and experiments illustrating the properties and uses of gums, starches and chemicals used in the textile industry are made. Then follows color matching and the identification of dyes on the fiber. A brief discussion of the physical and chemical principles involved precedes the laboratory work of each period.

Text-book: Fraps' "Principles of Dyeing."

Reference books: Knecht, Rawson and Rosenthal's "Manual of Dyeing; Knecht and Fothergill's "Principles and Practice of Textile Printing."

TEXTILE CHEMISTRY 101, 102—Dyeing—Semesters 1 and 2. (Doggett)

Two-Year Textile XI: (0 and 4)

Same as Textile Chemistry 4 and must be taken as a parallel course to General Chemistry 1, 2.

Text-book: Fraps' "Principles of Dyeing."

TEXTILE CHEMISTRY 104—General Science—Semester 2. Dogget.)

Two-Year Textile XI: (4 and 0)

This course is designed as introduction to the science of everyday things that the reason for many of the common facts in the world may be understood. Many of the experiments described in the text-book used will be performed by the students.

Text-book: Hodgson's "Elementary General Science."

VETERINARY SCIENCE

Professor Feeley.

VETERINARY SCIENCE 2—Anatomy and Physiology—Semester 2. (Feeley)

Junior 1, Elective: (2 and 2)

This course is a study of anatomy, physiology of digestion, farm sanitation, common diseases, and first aid treatment and is especially arranged for agricultural students.

The course in anatomy, which arranged as an introduction to the study of physiology of digestion and stock judging; includes the study of skeletons and the principal articulations, muscles of locomotion and the organs of circulatory, respiratory, digestion, and urinary apparatus. Skeltons, models, and charts are used in this course. The physiology of digestion treats of the chemical and physical processes by which food is made soluble and capable of absorption. Farm sanitation deals with sanitary conditions and with the fundamentals in the control of contagious and infectious diseases. The common diseases and first aid treatment of farm animals are also studied.

Text-book: "Veterinary Studies for Agricultural Students"—Reynolds.

VETERINARY SCIENCE 3—Diseases of Animals—Semester 1. (Feeley)

Senior I, Elective : (2 and 2)

This course covers the principles of etiology, pathology, diagnosis, and treatment of the various diseases of domestic animals.

VETERINARY SCIENCE 101—Semester 1. (Feeley)

Two-year Agr. XII: (2 and 2)

A brief study of anatomy, physiology, digestion, farm sanitation, common diseases, and first aid treatment of farm animals.

Text-book: "Veterinary Studies for Agricultural Students"—Reynolds.

YARN MANUFACTURING

Associate Professor Horton

Assistant Professor Cheatham

YARN MANUFACTURING 1—Pickers—Semester 1. (Horton)

Sophomore, VIII: (2 and 2)

Opening and mixing cotton. Study of bale breakers, automatic feeders, intemediate and finisher lappers. Various styles of openers, setting and adjusting same. Cleaning trunks, different kinds of beaters, screens, fans, calendar rolls, evener motion and measuring motion. Calculation for drafts, production, speeds, etc. Practice operating pickers and cleaning machinery.

Text-book: Winchester's Cotton Yarn Manufacture.

YARN MANUFACTURE 2—Cards and Drawing Frames—Semester 2 (Horton and Cheatham)

Sophomore VIII: (2 and 2)

A study of the revolving flat card, principal parts, stripping, clothing, grinding, brushing, and settings. Calculations for speeds, production, waste, draft, and constants for same. Setting of metallic and leather covered rolls on the drawing frame. Care and varnishing leather covered rolls, calculation for speeds and drafts.

Practice operating cards, drawing frames, and other machinery.

Text-book: Winchester's Cotton Yarn Manufacture.

YARN MANUFACTURE 3—Roving Frames—Semester 1. (Horton)

Junior VIII (2 and 2)

The construction and operation of roving frames, study of the slubber, intermediate, roving frame, and jack frame. The different styles of top rolls used and the method of weighting them. Making necessary calculations for draft, twist, tension, lay, taper and constants for same. Production per spindle and sizing the roving, turns per inch for different hanks.

Practice operating roving frames.

Text-book: Winchester's Cotton Yarn Manufacture.

YARN MANUFACTURE 4—Cotton Grading. Doubling and Drafting—Semester 2 (Horton)

Junior VIII: (2 and 2)

Classing of cotton according to U. S. Government standards for grades, tinges, and stains. Stapling of cotton, study of Sea Island, Egyptian, and all grades of cotton raised in the United States. Methods of ginning, marketing, contracts for cotton, receiving and handling cotton at mills, and claims.

Text-book: Notes.

Calculation for draft, production, weights, and number of machines required for different counts, labor costs, and production of yarn from picker to spinning frame inclusive.

Practice operating spinning frames.

Text-book: Lectures and reference books.

YARN MANUFACTURE 5—Spinning, Spooling and Twisting—Semester 1 (Horton)

Senior VIII (2 and 2)

Construction and principal parts of spinning and spooling machines, such as builder motions, travelers, rolls and creels. Calculations on twisting, drafting, doubling, and constants. Wet and dry twisting, amount of twist in different ply and coarse yarns, balanced twist, and thread. Size of rings, steel and brass travelers for different counts. Calculation for the same.

Practice operating spinning and spooling machines.

Text-book: Winchester's Cotton Yarn Manufacture.

YARN MANUFACTURE 101, 102—Carding and Spinning Semesters 1 and 2 (Horton and Cheatham)

Two-Year Textile XI: (2 and 4)

A modification of courses 1, 2 and 3, 4.

YARN MANUFACTURE 103, 104—Carding and Spinning—Semesters 1 and 2. (Horton and Cheatham)

Two-Year Textile XI. (2 and 4)

A modification of courses 3 4, and 5, 6

YARN MANUFACTURE 105—Applied Mathematics—Semester 1. (Cheatham)

Two-Year Textile XI: (4 and 0)

This course is designed to present the body of mathematical information which is likely to be of daily service no matter what one's occupation may be. The examples and problems are gathered from many sources, and are, as far as possible, such as occur in the household, on the farm, in the factory, and at the office.

Text-book: Barker's "Applied Mathematics"

YARN MANUFACTURE 106—Cotton Classing—Semester 2. (Horton.)

Two-Year Agr. XII. (0 and 2)

Practice in the classing of cotton. This course is aranged to suit the needs of students in agriculture.

YARN MANUFACTURE 6—Combers, Sliver Lap, and Ribbon Lap—Semester 2. (Horton)

Senior VIII (1 and 2)

Construction, setting, and adjustment of sliver lap and ribbon lap machines. Calculations for draft and production of the same. Study of somber, timing, setting for different staples of cotton and production of waste. Operation and management of combers, and all necessary calculations.

Practice in operating the sliver lap, ribbon lap, and comber machines; also in running test lots of cotton through the different machines.

Text-book: Winchester's Cotton Yarn Manufacture

YARN MANUFACTURE 8—Mill Economics—Semester 2. (Horton)

Senior VIII (1 and 0)

The character of this course is descriptive rather than theoretical. Its aim is to explain the principles of economics as applied to general management. This includes the study of cost of production in the various departments, wages and labor conditions, care of mill and mill village. Students will report in class on articles assigned them in technical books and periodicals.

Division Rooms and Equipment.

Picker Rooms.—Pickers—One Atherton automatic feeder; one Atherton breaker lapper; one Atherton finisher lapper. Pickers are equipped with Brown St. Onge patent adjustable grid bars.

Card Room.—Cards—One Mason 40 inch revolving top flat card.

Double Carding Process.—One Saco and Pettee 40 inch breaker card; one Saco and Pettee 20 inch improved lap winder; one Saco and Pettee 40 inch finisher card.

Combing.—One Mason sliver lapper; one Mason, six head, ribbon lapper; one Mason, six head comber.

One Whitin silver lapper; one Whitin four head, ribbin lapper; one eight head, Whitin high speed comber.

Railway Heads.—One Saco and Pettee railway head, with evener motion, stop motion and metallic rolls; one Mason railway head, with evener motion, stop motion and metallic rolls.

Drawing Frames.—Two Saco and Pettee drawing frames four deliveries, stop motions, metallic rolls; one Mason draw frame, four deliveries, stop motions and metallic rolls; one Whitin drawing frame four deliveries, leather covering rolls.

Fly Frames.—One Saco and Pettee 12 x 6 inch, 40 spindle slubber, with latest differential motion; one Saco and Peetee 6 x 3 inch 80 spindle, fine roving frame, with latest differential motion. one Woonsocket 6 x 2 1-2 inch, 96 spindle jack roving frame, with Daly's improved differential motion.

Ring Spinning.—One Saco and Pettee combination warp and filling ring spinning frame, 128 spindles; one Mason combination warp and filling ring spinning frame, 112 spindles; two Fales and Jenks combination warp and filling ring spinning frames, 80 spindles each designed for spinning fine counts. two Whitin combination warp and filling ring spinning frames, 80 spindles each. One new Fales and Jenks tape drive Westinghouse motor driven 80 spindles for both warps filing.

Mule Spinning.—One Mason self-acting spinning mule, 120 spindles 1 3-4 inch gauge, with all latest improvements.

Spooling.—Two Draper spoolers 40 spindles each; one Saco and Pettee spooler, 72 spindles; one Barber-Coleman automatic knotter, one Byrd automatic knotter; One motor driven Westinghouse 12 spindle Eastern and Buinham, one Barber Coleman knotter "Simplex."

Twisting.—One Draper combination wet and dry twister, 48 spindles; two Fales and Jenks wet twisters, combination filling and taper top wind; 70 spindles each.

Winding.—One universal cone and tube winder.

Reeling. ...One D. A. Tompkins adjustable reel, 50 spindles; one Draper 54 inch reel, 50 spindles.

Miscellaneous Equipment.—Fairbanks scales; model of Daly's differential motion (complete;) models of Campbell's ball bearing rolls; Brown and Sharpe roving reel; Brown and Sharpe yarn reel; Brown and Sharpe scales and weights; Charlotte Supply Co's. skein tester; model of "Eagle" cotton gin; Fred B. Howe twist counter. Henry L. Scott Yarn and Cloth Tester. Reeves Variable Speed transmission. Bahnson Humidifiers. Bahnson Conditioning machine.

ZOOLOGY AND ENTOMOLOGY

Professor Conradi

Assistant Professor Reed.

ZOOLOGY 2—General Zoology—Semester 2. (Reed)
Sophomore I, IX, XIII: (3 and 2)

A study of the fundamental principles of the structure, habits. and life processes of invertebrate animals. General anatomy, physiology, and ecology of typical vertebrate types together with general laws of development are also included in this course.

ENTOMOLOGY 3—General Entomology—Semester 1. (Reed)
Junior 1, Elective: (2 and 2)
Prerequisite; Zoology 2.

An introduction to entomology. This course embraces the elementary principles of entomology including theoretical and laboratory work on the structure and relationship of insects.

Text-book: "A Manual for the Study of Insects"—Comstock.

ENTOMOLOGY 5—Field Crop Insects—Semester 1. (Conradi and Reed)
Senior 1, Elective: (2 and 2)
Prerequisite: Entomology 3.

A study of insects attacking field crops in the field. Careful consideration to life histories and habits as well as culture and farm management as applied to the control of field insects.

ENTOMOLOGY 7—Stored Products Insects—Semester 1. (Conradi and Reed)
Senior 1, Elective: (2 and 2)
Prerequisite; Entomology 3.

A study of the lives and habits of the numerous insects affecting various stored products, careful consideration being given to control measures. Lectures are supplemented by practice work in the laboratory, in the field, and in storage houses.

ENTOMOLOGY 9—Medical Entomology—Semester 1. (Reed)
Senior I, Elective: (2 and 2)
Prerequisite: Entomology 3.

A study of the various insects that are known to or suspected of carrying human diseases. Lectures, laboratory and field practice in biology and practical problems in sanitation.

Text-book: "Animal Parasites and Human Disease"—Chandler.

ENTOMOLOGY 10—Truck Crop Insects—Semester 2. (Conradi)
Senior I, Elective: (2 and 2)
Prerequisite: Entomology 3.

A study of the various insects affecting vegetable crops. The text is supplemented by laboratory and field practice upon typical insects and special attention is given to the application of insecticides and the manipulation of spray machinery.

Text-book: "Manual of Vegetable Garden Insects"—Crosby and Leonard.

ENTOMOLOGY 12—Orchard Insects—Semester 2. (Conradi)
Senior I, Elective: (2 and 2)
Prerequisite: Entomology 3.

In this course special attention is given to the insects that attack orchards, small bush fruits, and nut trees. The text-book work is supplemented by practice in the laboratory and the study of control measures in the field.

Text-book: "A manual of Fruit Insects"—Slingerland and Crosby

ENTOMOLOGY 14—Apiculture—Semester 2. (Reed and Conradi)
Senior I, Elective: (2 and 0)
Prerequisite: Entomology 3.

An introductory course in bee keeping which includes a brief study of the life history, races, hives, tools, etc.

Text-book: "Beekeeping"—Phillips.

ENTOMOLOGY 16—Quarantine Methods—Semester 2. (Conradi)
Senior I, Elective: (2 and 2)

This course deals with the various laws governing quarantines. The National Insecticide Act is studied and careful consideration is given to fumigation and other control methods employed in nurseries and propagating beds. This course is open only to students majoring in entomology.

ENTOMOLOGY 18—Insect Anatomy—Semester 2. (Reed)
Senior I, Elective: (2 and 0)

This course is a study of insects in their biological and economic aspects together with practice in advanced anatomy, including laboratory technique. Open only to students majoring in entomology.

ENTOMOLOGY 101—Elementary Entomology—Semester 1 (Reed)
Two-Year Agriculture XII: (2 and 2)

An elementary course involving insect structure and habits. Instruction in spraying and dusting, and cultural methods and insecticides is given.

Text-book: "Insects of Farm, Garden, and Orchard"—Sanderson and Piers

VOCATION TRAINING IN CO-OPERATION WITH THE U. S. VETERANS BUREAU.

GENERAL INFORMATION

Organization

MATTHEW L. McHUGH, B. S., Rehabilitation Assistant in Charge of United States Veterans Bureau Work.
WILLIE T. PATRICK, B. S., Instructor in Agronomy
MONROE E. GARDNER, B. S., Instructor in Horticulture.
G. H. MARTIN, B. S., Instructor in Animal Husbandry and Dairying
W. P. ENLOE, Instructor in Textiles
LAWRENCE A. SEASE, B. S., Assistant Professor in English.
FINLEY GETTYS, B. S., Instructor in Mathematics
EDWARD C. DILLARD, B. S. A. Instructor in Supervised Study .
———————— Instructor in Farm Projects.
———————— Instructor in Farm Projects.
LUCILE ROCHESTER., Secretary and Clerk.

General Information

The Department of Education of Disabled Soldiers was formed upon request of the United States Veterans Bureau. All men taking instructions in the course outlined are disabled ex-service men sent to this Institution by the U. S. Veterans Bureau. This Institution offers two year course in Agriculture, and Textiles. In Agriculture, the student may major in General Farming, Animal Husbandry and Horticulture. The aim of these short courses is to prepare the student for a vocation, this may be the running of a farm for himself or for some one else. The courses are, also, designed to prepare the student for other occupations closely related to agriculture. For this reason it is necessary that the student be given a large amount of practical work.

The student who can meet the standard set by the Institution, is enrolled as a regular student, and allowed to obtain his degree in the course he selects. Men who cannot meet the requirements of the regular college courses are assigned to one of the following sections, depending on his past education:

"A"—Eight, ninth ,and tenth grade men
"B"—Fifth, sixth, and seventh grade men
"C"—First, second, third, and fourth grade men.

No student will be allowed to stay in the "C" section, which is Supervised Study over six months. He will then be advanced to the higher sections, and upon completion of the course may be allowed Project Training.

Special courses for Veterans Bureau Trainees below college grade in Section "A", "B", and "C".

AGRONOMY "A"—Corn and Cotton—Semesters 1 and 2. (Patrick)
"B" section 1—(2 and 3)

This is a detailed course on seed selections, varieties, planting, cultivation, fertilizer, harvesting, storing and marketing corn and cotton. Also, a study of the isects that infest these two crops.

Text-book: Southern Field Crops—Duggar.

AGRONOMY "B"—Soils—Semester 1. (Patrick)
"B" section (2 and 3)

In this course, the origin, formation, types, moisture, organic matter, germ life, air temperature and plant food of soils are taken up.

Text-book: Soils and Fertilizers—Lyon.

AGRONOMY "C"—Farm Machinery—Semester 1. (Patrick)
"B" section (2 and 4)

Harvesting machinery, testing of machinery, assembling machinery, explosives, and a short course on gas engines and tractors is covered in this course.

Text-book: Equipment for Farm and Farmstead—Ramseur.

AGRONOMY "D"—Fertilizers—Semester 2 (Patrick)
"B" Section (2 and 2)

This course covers the purchase, mixing and application of fertilizers, fertilizer tests and problems, farm manure and green manure.

Text-book: To be selected.

AGRONOMY "E"—Buildings and Sanitation—Semester 2 (Patrick)
"B" section (2 and 4)

The planning an d erection of buildings with regard to location, cost, etc., is taken up. Sanitation covers natural and artificial drainage, wells, disenfectants, and preventation of disease.

Text-book: To be selected

AGRONOMY "F"—Farm Machinery—Semesters 1 and 2 (Patrick)
"C" Section (0 and 2)

This is an elementary course in the study of the construction and operation of general farm machinery, belt lacing, blasting, pipe cutting, soldering, etc., is, also, taken up. All practional work. No text-book is used.

AGRONOMY "G"—Crops—Semesters 1 and 2 (Patrick)
"A" section (2 and 3)

In this course small grains are taken up. Their general characteristics, varieties, diseases, and planting, winter and summer cover crops, Forage Crops, Vetch, Alfalfa, Millet, and Rape.

Text-book: Southern Field Crops—Duggar.

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AGRONOMY "H"—Farm Management—Semester 1 (Patrick)
"A" section (2 and 3)

This is a general course in farm management given as a preparative to project plan work.

Text-book: Warrens Farm Management.

AGRONOMY "I"—Biology—Semester 1 (Patrick)
"A" section (2 and 3)

This is an elementary course in Biology. It takes up the various parts of plants, reproduction, comparison with animals, etc.

Text-book: To be selected.

AGRONOMY "J"—Project Plans—Semester 2. (Patrick)

Only students going on Project Training take this course. It consists in the student working up his project under the supervision of the instructor.

Text-book: No text-book used.

DAIRYING "A"—Milk—Semesters 1 and 2 (Martin)
"B" section (2 and 3)

This is a detailed course on milk, consisting in the study of the factors that effect its production, as to both quality and quantity. Its composition and factors effecting composition. Sanitation is also taken up.

Text-book: Milk and Its Products—Wing.

ANIMAL HUSBANDMAN "B"—Major Farm Animals—Semester 1 (Martin)
"B" section (2 and 3)

This course covers the study of all major farm animals. The types, classifications, adaptation, etc., are taken up.

Text-book: Study of Farm Animals—Plumb

ANIMAL HUSBANDMAN "C"—Feeds and Feeding.—Semesters 1 and 2 (Martin)
"B" section (2 and 3)

In this course, the use of the various feeds to animals is taken up in detail. The composition and classification of various feeds, and how to feed them.

Text-book: Principals of Feeding Farm Animals—Bull.

ANIMAL HUSBANDRY "D"—Breeds and Judging—Semester 2 (Martin)

"B" section (2 and 3)

In this course the study and judging of the various breeds of dairy and beef cattle is covered.

Text-book: To be selected.

ANIMAL HUSBANDRY "E"—Animal Husbandry—Semesters 1 and 2. (Martin)

"C" section : (0 and 2)

This is a general course in Animal Husbandry, and is designed to give the student an insight to Animal Husbandry work.

Text-book: No text-book is used.

DAIRYING "F"—Dairying—Semesters 1and 2 (Martin)

"C" Section: (0 and 2)

This is a general course in dairying and is designed to give the student an insight into dairy work.

Text-book: No text-book is used.

ANIMAL HUSBANDRY "G"—Poultry—Semesters 1 and 2 (Martin)

"C" Section: (0 and 2)

This is a general course in dairying and is designed to give the student an insight into poultry work.

Text-book: No text-book is used.

ANIMAL HUSBANDRY "H"—Diseases of Cattle—Semester 1 (Martin)

"A" Section: (2 and 3)

Contagious and infectious, characteristics, important symptoms, preventation and treatment of principal diseases of cattle.

Text-book: Common Diseases of Farm Animals—Craig.

ANIMAL HUSBANDRY "I"—Swine Production—Semester 1 (Martin)

"A" Section: (2 and 3)

This course deals with the types, breeds and judging, history, use, characteristics, importance, adaptability of bacon and lard types.

Text-book: To be selected

ANIMAL HUSBANDRY "J"—Minor Farm Animals—Semester 1. (Martin)

"A" Section: (2 and 3)

This course takes up the minor farm animals of a farm, dealing on types, breeds, and characteristics.

Text-book: Study of Farm Animals—Plumb

ANIMAL HUSBANDRY "K"—Poultry—Semester 2. (Martin)

"A" Section: (2 and 3)

This course takes up the feeding, incubation of eggs, diseases and ailments, cleaning of houses, natural and artificial incubation of eggs, symptoms, prevention and treatment of diseases.

Text-book: To be selected.

ANIMAL HUSBANDRY "L"—Breeding—Semester 2 (Martin)

"A" Section: (2 and 3)

This course takes up the reproduction, jestation, fertility, sterility, heredity, inbreeding and effects, and cross breeding of various animals.

Text-book: To be selected.

TEXTILE "A"—Textile Calculation—Semesters 1 and 2 (Enloe)

"B" and "C" Sections (5 and 0)

Applied industrial calculations.

Text-books: Applied Mathematics—Barker. Textile Arithmetic—McSwain.

TEXTILE "B"—Designing—Semesters 1 and 2 (Enloe)

"B" and "C" Sections (2and 0)

A study of the fundamentals of designing. Reproducing designs from fabrics and making drawing-in drafts and chains.

Text-book: Enloe's notes.

TEXTILE "C"—Weaving—Semesters 1 and 2 (Enloe)

"B" and "C" Sections (1 and 2)

Practical instruction in operating and fixing plain, automatic, box dobby, and jacuquard looms. Calculations applied to weaving.

Text-book: I. C. S.

TEXTILE "D"—Yarn Manufacture—Semesters 1and 2 (Enloe)

"B" and "C" Sections.

Practical and theoretical study of the manufacture of yarns from the raw cotton, with settings on machines for different cottons. Calculations for speeds, production, waste, weights, drafts, and constants. Organization and layouts for different counts of yarn. Twisting, spooling, winding, and warping.

Text-books: I. C. S. Cotton Yarn Manufacture—Winchester.

TEXTILE "E"—Cloth Analysis—Semesters 1 and 2 (Enloe)

"B" and "C" Sections (2 and 0)

Calculations for single and ply yarns. Reproducing fabrics by analysis. Finding weight per yard and construction. Counts of warp and filling determined.

Text-book: I. C. S.

MATHEMATICS "A"—Cost Accounting—Semesters 1 and 2 (Gettys)

Section A-1 (5 and 0)

This course is designed for the purpose of showing the object of farm accounting, so as to make possible a business analysis of farming.

Text-book: Farm Cost Accounting.

MATHEMATICS "B"—Arithmetic—Semesters 1 and 2 (Gettys)
Section A (5 and 0)

This course contains the fundamental operations of arithmetic. Also the practical problems of use to the farmers. Industrial applications and commercial applications are also included in this course in arithmetic.

Text-book: Smith's Advanced Arithmetic.

MATHEMATICS "C"—Arithmetic—Semesters 1 and 2 (Gettys)
Section B (5 and 0)

This course is fundamentals, but mostly problems pertaining to agriculture. The calculation of fertilizer formulas; the balancing of ratios, nutritive ratio; and etc.

Text-book: Turner's Rural Arithmetic.

MATHEMATICS "D"—Agricultural Arithmetic—Semesters 1 and 2 (Dillard)
Section C, Supervised Study (12 and 0)

An elementary course in arithmetic, beginning with addition, when necessary, and completing percentage and interest. The text is supplemented with every-day farm problems.

Text-book: Rural Arithmetic—Madden and Turner.

HORTICULTURE A—Pomology—Semesters 1 and 2 (Gardner)
Sections A, B, and Special Section (3 and 6)

To give a definite working knowledge of the operations involved in establishing and maintaining the orchard. The laboratory work includes the various operations connected with general fruit growing, special reference being given to pruning, spraying, harvesting, grading and packing the fruit.

Text-book: Productive Orcharding—Sears.

HORTICULTURE B—Small Fruits—Semesters 1and 2 (Gardner)
Sections A, B, and Special Sections. (2 and 2)

Establishing and maintaining a small fruit plantation. Propagation, culture, pruning, spraying, harvesting, and marketing of the grape, strawberry, dewberry, raspberry, blackberry, and other small fruits.

HORTICULTURE "C"—Vegetable Growing—Semester 2 (Gardner)
Sections A, B, and Special Sections. (2 and 3)

Principles and practices involved in the production of vegetables for home use as well as for commercial purposes.

Text-book—To be selected.

Reference: Garden Farming—Corbett, Principles of Vegetable Gardening—Bailey.

HORTICULTURE "D"—Landscape Gardening—Semester 2 (Gardner)

Sections A, B, and Special Sections (1 and 1)

A study of the principles of landscape art to impress upon the student the importance of a well planned, well kept farmstead. Special attention is given to arrangement of various buildings, yards lots, etc., and to the planting and care of trees, shrubs, and ornamental plants.

Text-book: U. S. and State bulletins and observation.

HORTICULTURE "E"—General Horticulture—Semesters 1 and 2 (Gardner)

Section C (0 and 2)

Lecture laboratory course for elementary students, preparatory for advancement to a higher section or, if not advanced, to be of practical value when student is sent out on project or placement training.

ENGLISH "A"—English—Semesters 1 and 2 (Sease)

"A" Section: (5 and 0)

This is the most advanced course given in English, and takes up writing, spelling, and the English Language.

Text-books: Common words Commonly Mispelled Potter, Jeschke, Gillett Grammar.

ENGLISH "B"—English—Semesters 1 and 2 (Sease)

"B" Section (5 and 0)

This is an intermediate course in English, and takes up writing, spelling, and the English Language.

Text-book: Progressive Speller, Book2, English—Book 1, Kinard and Withers, Webseters Effective English.

ENGLISH "C"—English—Semesters 1 and 2 (Sease)

"C" Section Textile (5 and 0)

The elements of the English Language, Composition, Spelling and reading are given in this course.

Text-books: Progressive Speller book 2, English book 1—Kinard and Withers.

ENGLISH "D"—Agricultural English—Semesters 1 and 2 (Dillard)

"C" Section Supervised Study. (24 and 0)

This is a special course for low grade men and takes up the following subjects:

1. Spelling: Elementary spelling and pronunciation.

Text-book: Progressive Course in Spelling—Hunt.

2. Reading: Practice reading and expression of subject matter in the student's own words.

Text-book: Industrial Readers—Tappan.

3. Penmanship. Practice writing.

Text-book: No text-book is used.

4. English Grammar. An elementary study of the parts of speech, sentence building, common errors, and letter writing.

Text-book: English for Evening Schools—Chancelor.

RESERVE OFFICERS' TRAINING CORPS

Under the provisions of the National Defense Act of June 3rd, 1916, the War Department has established at Clemson College an Infantry unit of the Reserve Officers' Training Corps (R. O. T. C.).

The purpose of the R. O. T. C. is set forth in Special Regulations 44, War Department, 1919, as follows:

1. The Reserve Officers' Training Corps is organized under authority of act of Congress of June 3, 1916, as amended by acts of Congress of September 8, 1916, and July 9, 1918. Extracts from these acts are contained in Appendix I

2. The primary object of the Reserve Officers Training Corps is to provide systematic military training at civil educational institutions for the purpose of qualifying selected students of such institutions as reserve officers in the military forces of the United States It is intended to attain this object during the time that students are pursuing their general or professional studies with the least practicable interference with their civil careers, by employing methods designed to fit men, physically, mentally and morally, for pursuits of peace as well as pursuits of war. It is believed that such military training will aid greatly in the development of better citizens. It should be the aim of educational institutions to maintain one or more units of the Reserve Officers' Training Corps in order that in time of National emergency there may be instantly available a large number of educated men, physically efficient and trained in the fundamentals of military science and tactics and fitted to lead intelligently the units of the armies upon which the safety of the country will depend. The extent to which this object is accomplished will be the measure of the success of the Reserve Officers' Training Corps.

3. The Reserve Officers' Training Corps will enrich the educational resources of schools and colleges by contributing new problems, applications and equipment. This will not only vitalize the course of study but give to the student a training which will be as valuable to him in his industrial or professional career as it would be, should the Nation call upon him to act as a leader in its defensive forces.

Moreover, the wide variety of work recognized and accepted by the War Department as of intrinsic value for military purposes should leave on the mind of the student an indelible impression of the extent to which the modern Army is the nation in arms. Commerce, industry, agriculture and all the professions have each their contribution to make to the military organization.

4. A military unit is largely dependent for its efficiency upon the physical fitness of the individuals composing it. Physical training, therefore, will form an essential part of the military instruction. It will be the policy to encourage and support the physical training given by civilian teachers, thus cooperating with all other effective agencies in an effort to promote a more vigorous American manhood.

5. a. The policy adopted by the War Department to carry out the provisions of the act of Congress of June 3, 1916, is a matter of vital importance to every citizen interested in the educational system of our country and the development of American youth. It will aim to give all students of the Reserve Officers' Training Corps a thorough physical training, to inculcate in them a respect for all lawful authority, to teach the fundamentals of the military profession, leadership, and the special knowledge required to enable them to serve efficiently in the various branches of the military service.

b. The War Department aims to establish in selected civil educational institutions a system of training which will tend towards making better citizens and furnish a means whereby the graduates of such institutions can function more advantageously to the best interests of the nation in time of military necessity.

Requirements

All students at the college are required to take a minimum of three hours per week of military training. Members of the Freshman and Sophomore classes who are more than 16 years of age and who pass the physical examination must take the Basic Course as laid down by the War Department, and set forth under the heading "Military Department" in the detailed description of the course.

A Junior and Senior student may continue in the Basic Course or by conforming to the following rules may enter the Advanced Course:

1. He must have completed the Basic Course.
2. He must be recommended by the President of the college and the Professor of Military Science and Tactics.
3. He must agree in writing to continue the course during the remainder of his time in college, devoting not less than five hours per week to the subject, and to attend the one summer camp prescribed by the War Department.

Students taking the Basic Course in their Freshman and Sophomore years are furnished one uniform each year, or commutation at a rate prescribed by the War Department. Members of the upper classes continuing in the Basic Course are not considered members of the R. O. T. C. and are not entitled to the uniform nor commutation therefor. Freshman or sophomores and special or short course students who are not physically qualified for the R. O. T. C. and members of these classes who for other reason do not enter the R. O. T. C. are not entitled to uniforms or commutation thereof.

At present rates the Government commutation for uniforms next session would be $6.00 for the session for sophomores and juniors and $30.00 for the session to freshmen and seniors. These figures cannot be guaranteed as they are fixed each session by the War Department.

Those taking the advanced course are entitled to this uniform or commutation therefor and in addition, to an allowance for subsistence, (forty cents per day at present), during the remainder of their course at college including the vacation between their Junior and Senior years. During the time in camp they are given the ration instead of commutation for subsistence, and at present are paid seventy cents per day.

Summer Camps

As noted above under head of "Requirements," every one taking the advanced course must take, under Army supervision and at Government expense. one period of camp training of about six weeks duration.

Transportation to and from the camps, subsistence while in attendance, and a uniform for camp use will be furnished.

Obligations

The only obligations incurred by the student taking the Basic Course is to take proper care of the uniform issued to him.

No obligations are imposed on those in the Advanced Course except as set forth in the contract and noted above, namely—

(a) To continue in it to completion unless sooner discharged by competent authorities.

(b) To attend one summer camp.

After Graduation—Commission in O. R. C.

After completion of the college course and attending the period of camp training the student is released from any further service under his contract with the United States. But if he so desires, and is recommended by his instructors, he may apply for a commission in the Officers' Reserve Corps (O. R. C.). These commissions are issued for periods of five years. If his application is approved and the President of the United States will commission him, he may be required to report for instruction for a period not to exceed fifteen days in any one year, at Government expense, and under the salary of his grade. During this period of five years he may be called into active service only in case of actual or threatened hostilities. and then with the rank he holds in the Reserve,—Second Lieutenant or higher.

Appointment as Temporary Second Lieutenant in Regular Army.

Upon application, the President of the United States is authorized to appoint any Reserve Officer as a Temporary Second Lieutenant in the U. S. Army, and assign him to duty with the army for a period of six months. During this service he will receive $100 per month salary and the allowances of a Second Lieutenant. At the end of the period of instruction he reverts to his status as a Reserve Officer.

COLLEGE SITE AND GROUNDS

Location.—The College is located on the Fort Hill homestead of John C. Calhoun, on the dividing line between Oconee and Pickens counties, in the picturesque foothills of the Blue Ridge. It has an elevation of 800 feet above sea level, and commands an excellent view of the mountains to the north and west, some of which attain an altitude of nearly five thousand feet. The climate is invigorating and healthful, and the surroundings are in every way favorable to the highest physical and mental development.

The College is one mile from Calhoun, a station on the main line of the Southern Railway, and two miles from Cherrys, on the Blue Ridge Railroad. By means of these roads and their connections, the College is easily accessible from all parts of the State. It is connected by telegraph and long distance telephone with all parts of the country. The post office is conveniently situated on the campus, and receives eight daily mails.

Grounds.—The College grounds comprise about 1541 acres, including the campus, the farm, and the Experiment Station grounds. The campus, including about 200 acres, is laid out in walks, drives, and lawns, and is shaded by a beautiful grove of native forest trees.

"Bowman Field," lying just in front of the Academic, Textile, and Y. M. C. A. Buildings, provides for part of the military drill.

"Riggs Field," a ten-acre athletic field, the largest and best arranged of its kind in the South, is located to the west of the Y. M. C. A. Building, and provides for baseball, football, track tennis, military drill and dress parade.

ACADEMIC BUILDING

The Academic Building is a three-story brick structure, 100 by 132 feet, trimmed with gray sandstone. It contains 36 rooms, including recitation rooms, library and reading rooms, literary society halls, physical laboratory, and the offices of the President the Registrar, the Commandant, the Treasurer, the Director af Student Affairs, and the Director of Athletics. The public **Telegraph and Telephone Office** is on the ground floor of this building. Adjoining this building is Memorial Hall, the College Chapel, which has a seating capacity of about one thousand. It is used for religious services and as a assembly room. The entire building is provided with steam heat and electric lights.

Library.—In the Academic Building is a series of rooms especially constructed for the use of the library. There are now approximately 25,000 volumes, classified under the various heads of literature, history, biography, science and reference books. In addition to these in the general library, there are 1,493 volumes in the Experiment Station and department libraries of the college. There are also 10 000 Government publications and 350 reference books, together with about 25,000 pamphlets. The library is supported by an annual appropriation, and the number of books is added to each year.

In connection with the library there is a reading room in which the students have access to 125 of the leading monthly and weekly periodicals, 25 agricultural papers, 7 daily papers, and many of the county papers.

The Clemson Relics.—In the Library there are thirty-seven oil paintings, collected by Mr. Clemson, chiefly in Holland,together with a number of other portraits.

CALHOUN MANSION

The former residence of John C. Calhoun, is kept in honor of his memory, in accordance with the provisions of Mr. Clemson's will.

The Calhoun Relics.—Several pieces of furniture and other interesting relics, formerly the property of Mr. Calhoun, are carefully preserved in the Calhoun Mansion, where they may be seen by visitors to the College.

Y. M. C. A. BUILDING

This building is in the Italian Renaissance style of architecture, of texture brick with colored tile inserts, terra cotta trimmings, and red tile roof. The interior finish is of stained yellow pine. It contains four floors—basement, mezzanine, first floor, and dormitory floor, giving a total of thirty-six thousand square feet of floor space. It is lighted by the indirect system, and has steam heat and modern water facilities.

The basement contains a basket-ball room, kitchen, quick lunch room, private dining room. general confectionery store and soda fountain, two bowling alleys, swimming-pool, shower and locker rooms, and general toilet.

The mezzanine floor is given over principally to committee rooms, retiring rooms, and balconies.

On the first floor are the general offices, reading. games, and lounging rooms, a ladies' club room and an auditorium. The dormitory floor has thirteen living rooms, a literary society hall, a masonic lodge room, and motion picture machine facilities.

The building is handsomely furnished and equipped to make a large contribution to the religious, social, and physical life of the student body and the community.

CLEMSON COLLEGE HOTEL

The Hotel, a frame building with two eight-room annexes, situated on a hill overlooking the campus, is operated by the College. In addition to furnishing a home for many officers and teachers, it is open the entire year to a limited number of transients.

RESIDENCES

Nine brick and fifty-nine frame residences, situated on the campus, furnish homes for most of the college teachers and officers.

BARRACKS

The cadet barracks comprise three large brick buildings. One is four stories high and contains 197 rooms for students. In the basement of this building is the dining hall 134 by 44 feet and the kitchen 50 by 37 feet.

The second building is 199 by 42 feet, and contains 104 rooms. The third building is 45 by 190 feet and contains 111 rooms. These buildings are heated by steam and lighted by electricity, and have an abundant supply of pure water. The rooms in the barracks are furnished with single width iron cots and other necessary appointments. The dining hall is well supplied with table linen, silverware, and china, and the kitchen is furnished with modern culinary
The bathrooms and toilets are located in brick buildings apart
appliances.
from the barracks and connected with them by covered gangways.

Refrigerating Plant.—In connection with the commissary there is a refrigerating plant consisting of the following: One 6-ton Frick double-cylinder compressor supplied with gauges, etc.; one double-pipe condenser; one triple-pipe brine cooler; 25 cans of 50 pounds capacity each, and a brine reservoir for use in ice-making or refrigeration. The following rooms are cooled by the plant; One room 12 by 13 feet for general storage, one 6 by 8 feet for milk and butter, one 6 by 8 feet for fruit and vegetables, one 6 by 12 feet for meat, and two rooms 6 by 6 feet each, in charge of the Chef, and used for storage of supplies in transit to dining hall

POWER STATION

The central power and heating plant contains two 150-hp. Stirling water-tube boilers, and two 100-hp. Lombard return tubular boilers, two Babcock and Wilcox 150-hp. pater-tube boilers with the necessary pumps, feed water heaters, and other auxiliary apparatus.

The power equipment consists of one 114-kw. Fleming sidecrank engine, direct connected to a 70-kw., 2,300-volt, three-phase alternator with direct connected exciter, and one 122-hp. Fleming four valve engine, direct connected to a three-wire 75-kw. direct current generator, one 200 kw. turbo-generator two stage, 2,300 volt, 3-phase alternating current with direct connected exciter.

A 75-kw. rotary converter is used to convert from one kind of service to another.

The switchboard equipment consists of three standard blue Vermone panels, and five black enameled slate panels, all equipped with the latest and best electrical instruments and appliances. The alternators are connected to the rotary converter through three 25-kw. transformers. All the machinery is of the General Electric Company make.

The building is 40 by 108 feet, is a single story of brick and cement blocks, with metal roof.

The plant complete cost about $53,000.00, and is in every way modern and up-to-date. It furnishes steam heat for the barracks and other college buildings, and electric lights and power to every department of the college and residences of the community. The pumping station, situated about one-half mile distant, is electrically operated from this plant. This pumping plant has both steam and electric pumps and an aggregate capacity of 1,100 gallons per minute.

HOSPITAL

The Hospital, located about a quarter of a mile from the barracks, is a wooden building, especially designed for the purpose. It is lighted by electricity, and has a thorough sewerage system. It is in the immediate charge of the Surgeon, who is assisted by an experienced matron and nurse, thus insuring the best personal attention to each patient.

LAUNDRY

This is a brick-building especially constructed and fitted with the improved machinery of a modern steam laundry, and is operated exclusively for the students.

AGRICULTURAL HALL

The Agricultural Hall is a building 146 by 94 feet, in colonial style, and constructed of red side-cut brick, with columns and trimmings in oolitic limestone. It is furnished with a complete system of electric lights, water and sewer connection, and steam heat; provides class rooms and laboratories for instruction in agriculture, soil physics, botany and bacteriology, zoology and entomology, geology and mineralogy, and offices and laboratories for the Experiment Station. It also contains the museum and gymnasium hall.

The Experiment Station Library.—The Experiment Station Library, which is in the Agricultural Hall, has been reorganized recently and is maintained as an agricultural library for the use of the staffs of the Station, the Agricultural Department, the Extension Service, and the agricultural students. A trained librarian is in charge. There are now about 1900 volumes of agricultural literature and reference works, and approximately 10,000 pamphlets, consisting of bulletins, circulars, and reports of the national and state departments of agriculture, the state experiment stations, etc. About 125 agricultural journals are received regularly.

The Museum.—On the first floor of the Agricultural Hall is the Museum of Natural History. It is furnished with large cases containing the collections of the geologist, the entomologist, the botanist, the agriculturist, the agronomist, and the horticulturist. These exhibits are of especial interest to people of the State because they embrace the minerals and rocks of South Carolina; birds of South Carolina, insects common to the State, especially those injurious to vegetable life; fungus diseases of plants; and grains and fruits of the State. There are also objects of historical interest on account of their association with John C. Calhoun and Thomas G. Clemson.

DAIRY BUILDING

The Dairy Building is constructed of red brick trimmed with white stone. In addition to class rooms and laboratories it contains the offices of the following divisions: Animal Husbandry, Dairy, Horticulture, and Education. It is equipped with modern machinery for the manufacture of butter, ice cream and other dairy products, and for teaching modern methods of dairying.

DAIRY BARN

The Dairy Barn will accommodate both the Experiment Station and College herds. It is large enough to house 120 cows and all the feed required for these animals. It has separate box stalls for bulls and young stock. The floors are of cement and cork brick is used on the floors where the cattle lie. The lighting, ventilation, sanitation, stanchions, stalls, and the equipment for cleaning and feeding is of the most modern type to be found in the country. The milk is handled carefully in accordance with the best practice and experience of modern dairy methods. Nearby is a calf barn and a hog barn embodying the most recent improvements in such buildings. There are also four large cement silos conveniently located, where the stock feed is kept to supply these barns.

VETERINARY HOSPITAL

The Veterinary Hospital is a two-story frame building 48 by 65 feet, with basement 18 by 30 feet. It is furnished with electric lights, hot and cold water, and is heated by means of stoves. The basement contains a store room. The class room, office, pharmacy, and a well-equipped clinic and operating room are on the first floor. A laboratory for class work, a private laboratory and a store room for supplies are on the second floor.

FARM BUILDINGS

The College farm is provided with commodious barns and other farm buildings of modern design, which are described more fully in connection with the equipment for instruction in agronomy.

HORTICULTURAL GROUNDS

The Ornamental Horticultural Grounds are situated south east of the campus. Their acreage is devoted to the growing of various trees, shrubs, and flowers, and affords a beautiful park area as well as a small ornamental nursery. The Experiment Horticultural Grounds are located east of the campus and comprise about twenty acres. This area is devoted to experiments with apples, peaches, grapes, pecans, and small fruits. Vegetable and truck crop experiments are conducted in a fertile bottom along the banks of the Seneca River, about one mile south west of the campus.

The Cannery, a building 25 by 35 feet, is situated in the Horticultural Grounds. It is equipped for canning fruits and vegetables of all kinds.

Greenhouses,—The old greenhouse, 21 by 140 feet, and containing one thousand large pot-plants o fvarious kinds and six thousand small pot-plants, is situated in the Horticultural Grounds.

The new greenhouse, containing a central room 30 by 30 feet, and two wings, each 20 by 30 feet, occupies a prominent place in the center of the campus.

Both are used for experiment work and class instruction in horticulture, botany, etc.

ENGINEERING BUILDING

The engineering building is a substantial brick structure containing about 38,000 square feet of floor space. On the first floor are testing laboratories, machine shop, wood shops, forge shop, and foundry. On the second floor are the offices and the drawing and designing rooms. The third floor is devoted to class rooms and to the division of civil engineering.

ELECTRICAL ENGINEERING LABORATORIES

A one-story brick building designed for delicate instrument work, contains the instrument laboratory, the standardizing laboratory, room for storing instruments, supply room, and the Division office.

Adjoining the above is another single story brick building which contains the lecture room 25 by 35 feet (equipped with raised seats); the dynamo laboratory 35 by 53 feet; and large dark room and supply room.

TEXTILE BUILDING

This building is a brick structure of modern cotton mill design, 168 by 75 feet. It is of the slow-burning type, built according to fire insurance regulations, after plans of an experienced mill engineer. The building, although designed for educational and experimental purposes, containing office, lecture rooms and laboratories, retains the more prominent features of a typical Southern cotton mill. This affords the student an opportunity of gaining many points of valuable information in connection with mill construction, along with the manipulation of cotton fibres and the study of cotton mill processes and operations.

The first floor is occupied by the picking, carding and spinning machinery, a lecture-room, the main office, an exhibit room and the departmental library. The machinery on this floor is driven by two electric motors, one a 30-hp., 220-volt, direct-current Westinghouse motor, driving the carding machinery, and a 20-hp., 220-volt, direct-current General Electric Company motor, driving the spinning machinery.

The second floor is occupied by two weave rooms, three lecture-rooms, laboratory for organic chemistry, an office and two store rooms. The power looms on this floor are driven by a 20-hp 220-volt, direct-current General Electric Company motor.

The basement, which is situated under the north end of the building, is occupied by the dye house and laboratory for industrial chemistry.

The building is equipped with a system of "Vortex" humidifiers from the American Moistening Company; steam-heating system and automatic fire-sprinklers from the D. A. Tompkins Company; shafting, pulleys and hangers from Jones & Laughlin, Ltd., and from T. B. Wood's Sons.

The Printery, which is located in the north basement of the Textile building, is equipped as follows: One Miehle two-revolution printing press, 30 by 42-inch bed; two Chandler & Price job presses; one Chandler & Price cutter; one Morrison stitcher; two perforators; one letter folder; two Hammond cabinets; two imposing stones; one No. 5 model linotype machine with supply of matrices for same; a supply of type, furniture, etc. All the machines are driven by individual motors. The College reports, bulletins and miscellaneous stationery are printed here.

CHEMISTRY BUILDINGS

Two substantial brick buildings of about the same dimensions, each consisting of two stories and a basement, and connected on the first and second floors by glass-covered passageways, are devoted to chemical work. The north building serves partly for academic work and partly for the analytical work of the Fertilizer Analysis Division of the Public State Work of the college. The entire south building is devoted to academic work. Both buildings are well ventilated, heated by steam, and lighted by electricity.

FERTILIZER BUILDING

This is a three-story brick building, situated near the south chemistry building, and containing the offices of the Secretary of the Board of Fertilizer Control, fertilizer tag rooms, etc.

The Clemson College Post Office occupies the ground floor of this building.

PUBLIC UTILITIES

General Water Supply is taken from Hunnicutt Creek about three-quarters of a mile above the pump station. The water flows by gravity to a settling basin 36 feet by 36 feet, from there through two gravity filters having a capacity of three hundred and fifty gallons per minute. The filtered water passes to a storage reservoir from which it is pumped into a stand pipe one hundred feet high having a capacity of 130,000 gallons. From this it is distributed from the main to the various college buildings and to all parts of the campus. This water is tested regularly to see that it is kept free from all contaminations.

The Drinking Water Supply is pumped from a bold spring in a continuous stream through the baracks. It is thus furnished fresh pure and cold. This and all sources of water supply are kept under constant and strict surveillance, and the waters are frequently analyzed as a precaution against contamination.

The Sewer System.—All of the larger buildings and most of the residences are connected with an adequate sewer system, which empties into the Seneca River more than half a mile from the campus

LIGHT AND HEAT

All of the college buildings and residences on the campus are lighted by electricity furnished from the central power station. The principal college buildings are heated by steam.

CARE OF THE SICK

The Surgeon is one of the regular officers of the College, and his special duty is to look after the health of the students. He also has charge of the Hospital, and supervises all matters pertaining to the sanitation of barracks.

At a regular appointed time every day, students who so desire may consult the Surgeon, and those who are sick are cared for by experienced nurses in the College Hospital. In case of necessity students are allowed to consult the Surgeon at any time, or send for him, as may be required.

The Surgeon cannot undertake to notify parents every time a student reports to the Hospital for medicine, or for rest on account of some slight complaint. However, they may rest assured that they will be promptly notified of sickness of any consequence. In case of serious illness the Surgeon will telegraph them.

STUDENT EMPLOYMENT

The question is often asked if a student cannot help pay his way through College by obtaining employment. At Clemson College a student is kept so busy with his classes and military duties that little time remains for paid labor. Since the College is not located in a city, the opportunities for getting employment are practically limited to work in the dining hall.

Approximately twenty boys are employed to assist in merely placing the food on the tables. This work takes from thirty to forty-five minutes each day and the pay will average from $7.00 to $8.00 per month.

YOUNG MEN'S CHRISTIAN ASSOCIATION

The Young Men's Christian Association has supervision of the voluntary religious activities, of the students and endeavors to serve the religious, social, and physical life of the college community in keeping with the general policies of the International Organization It is a democratic student society, advised by a board of faculty and business men, and administered by General and Assistant Secretaries who have no official connection with the college as disciplinarians or instructors.

There are ten divisions of its work, as follows: Bible Study, Mission Study, Community Service, Membership, Conference, Social, Religious Meetings, Church and Relationship, and Publicity. Each of these divisions is in charge of a student committee, and the genius of the organization lies in keeping these men active in behalf of the best interests and standards of the college and community. The chairmen of these several committees constitute the cabinet, which meets weekly for consultation and plans. Detail of the work accomplished can best be had from the Annual Report of the Clemson Association, which is printed in the Hand Book and distributed free at the opening of school in September.

The Y. M. C. A. endeavors to enroll every man in Voluntary Bible Study, Mission Study and the study of Sex Hygiene. During the past year five hundred men were enrolled in Voluntary Bible Study Classes, almost 280 in Sex Hygeine, and over 500 in Mission Study. These classes are led by students and professors.

The Y. M. C. A. endeavors to see that every man in college learns to swim. Free lessons are given by the Secretaries and the members of the swimming team. Class and company basketball is under the auspices of the Y. M. C. A. Banners are awarded the winners and the picture of the team is placed with the banner on exhibition in the Y. M. C. A.building.

Concerts are given under the auspices of the Y. M. C. A., usually by artists from nearby towns. Many speakers of national reputation come to Clemson upon the invitation of the Y. M. C. A. Among the men invited during the past year are: Raymond Robins, Fred B. Smith, John R. Mott, and others.

Sunday School.—Sunday Schools, at which attendance is voluntary, meet every Sunday morning, and students are encouraged and urged to attend.

Chapel Service.—There is preaching every Sunday morning in the various churches or in the College chapel by ministers of the different denominations, and morning prayer services are conducted during the week by a resident minister or a member of the Faculty. All students are required to attend these exercises unless specially excused.

Students must attend the churches of which they are members, or with which they have been affiliated at home. However, special permission can be obtained for any particular Sunday to attend elsewhere.

LITERARY SOCIETIES

Six literary societies, the Calhoun, the Columbian, the Palmetto, the Carolina, the Hayne, and the Wade Hampton, furnish a valuable supplement to the work of the college. These societies afford facilities for practice in debate, oratory, declamation, and essay writing, and their members acquire valuable knowledge of parliamentary law and usage. The meetings are held weekly, on Friday evenings. An annual contest is also held by each society, at which there are debates, orations, and declamations by the students.

On these occasions a representative is chosen from each society to enter the contest for the Trustees' Medal at commencement.

The societies themselves also award medals annually to the best debater, orator, and declaimer.

The societies occupy halls in the Academic Building, which are furnished with carpets and opera chairs and which are maintained entirely by the students. A small initiation fee is charged, and small yearly dues collected to meet running expenses. All students are advised to join one of these societies.

State Oratorical Contest.—The societies also send a representative to the annual contests of the South Carolina Intercollegiate Oratorical Association, which includes the following institutions: Furman University, Wofford College, Clemson Agricultural College, Presbyterian College of South Carolina, Erskine College, Newberry College, South Carolina Military Academy, and the University of South Carolina.

LYCEUM COURSE

A Lyceum course, comprising about six numbers and employing some of the best talent on the American platform, is offered as a means of entertainment to students and others.

STUDENT PUBLICATIONS

The Clemson College Chronicle, a monthly magazine designed to encourage literary work among the students, is published jointly by the literary societies during the college session.

The Tiger, published weekly is devoted largely to athletics, Alumni and Local News.

The Annual, an illustrated volume, is published under the auspices of the senior class.

CLEMSON COLLEGE BRANCH OF THE AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

This organization is composed of instructors and students belonging to this national institution. This branch is maintained with the aim of acquainting the students with current engineering practice and problems.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS

A local branch of this national society, composed of Faculty members and of students pursuing mechanical engineering, has recently been formed at the college. Meetings are held periodically for the discussion of the latest enginering practices.

AMERICAN SOCIETY OF CIVIL ENGINEERS

Membership in this society is open to all civil seniors, seven juniors and one sophomore. Monthly meetings are held for the discussion of the latest engineering practices.

ATHLETICS

It is the policy of the College to sanction and encourage athletics so long as it does not interfere with studies and other duties. Football, baseball, basketball, and track are the most popular sports, and it is assumed that parents are willing for their sons to participate in these games unless the President is definitely notified to the contrary. The athletic teams are permitted to take a few trips each season, usually on Saturday, to play intercollegiate games. The college is a member of the Southern Intercollegiate Conference (S. I. C.). the Southern Intercollegiate Athletic Association (S. I. A. A.), and of the South Carolina Intercollegiate Athletic Association (S. C. I. A. A.).

Athletic Council.—The Athletic Associations to which the college belongs have placed the athletic interests at each college under the supervision of an athletic council, consisting of members of the Faculty, the Alumni and the student body.

The Council consists of thirteen members—four student members elected by the student body; three members of the Faculty—two elected by the students and one by the Alumni; four members of the Faculty (one of whom shall be the Director of Student Activities) appointed by the President; and two alumni members appointed by the Alumni Association.

A member of the Faculty, known as the Director of Student Affairs, has the final authority in all lines of student activities in so far as their relation to college rules are concerned.

Intercollegiate Athletics.—For the regulation of intercollegiate athletics, the Faculty has adopted the following rules:

1. No student who has a class mark lower than P in more than eight hours of work in any one term shall be allowed during the ensuing term to take part in any intercollegiate contest. Demerits shall be considered in the record, and more than forty demerits shall count as a failure in two hours of class work. Changing from one course to another, or from a regular to an irregular course, shall not interfere with the operation of this rule.

At the end of each grading period, the Faculty Athletic Commitee will canvass the record of athletes, and if any are found to be so deficient as to endanger their scholastic standing, they will be withdrawn from the squad.

2. Absences from College.—The football team shall be allowed a maximum of ten days absence from the campus during the ses-

sion for games away from the college. The baseball team shall be allowed a maximum of ten days; the band shall be allowed a maximum of seven days; the track team and the basketball team ten days. The tennis team, glee club, or any other organization hereafter sanctioned, shall be allowed a maximum of six days absence during each session. Saturday afternoon, Sunday, and holidays shall not count as days. No one contestant or representative shall be allowed to leave the campus for more than twenty days during the session, except at the discretion of the Faculty Athletic Committee.

3. No member of an athletic team shall be eligible for a managerial position in any other branch of sport.

4. No team shall be allowed to leave the college grounds to participate in any match games unless accompanied by a member of the Faculty, who shall be responsible to the Faculty for the conduct of the players and coaches while away from the college. Such representative shall be appointed by the chairman of the Faculty Athletic Committee, and his expenses shall be included in the expenses of the trip, provided that when any team, except the football team, leaves the college grounds, the chairman, at his discretion, may appoint a player or a manager in place of a member of the Faculty.

5. No student shall be eligible to participate in an intercollegiate contest who is away from the college without proper authority, or without having complied with all the rules or orders issued by the Commandant regarding such matters.

6. It shall be the duty of the Faculty Athletic Committee to see that the foregoing rules and regulations are strictly enforced.

CADET EXCHANGE

The college maintains a book and supply store known as the Cadet Exchange where students may purchase text-books, drawing instruments and other student supplies at reduced prices. A complete list of the text-books used in each course with the prices of same will be furnished on application.

THE AGRICULTURAL EXTENSION SERVICE

The agricultural extension work of the college is carried on by the Extension Service in co-operation with the United States Department of Agriculture. The work is supported by Federal appropriations and in part by State and County appropriations. The main development of extension work has come since the enactment of the Smith-Lever Act in 1914. The purpose of Extension work is to instruct farmers of the state in the practical application of the principles of improved agriculture, in both production and marketing. A staff of specialists, some of whom are also members of the Agricultural Faculty, assist the county agents in planning and carrying out demonstrations with farmers over the state.

Publications.—A large number of publications, including bulletins, circulars, posters, and information cards. are distributed annually. The Weekly News Notes is published to carry matters of timely and practical interest to the editors and a few farmers of the state. A free press plate service is also furnished to those papers requesting it. In addition to this, news letters are issued on an average of three times per week and these are sent only to the newspapers.

County Agents.—Every county in the state, by co-operation in providing the finances, may have a county agent. These agents are agricultural college graduates who have had practical farm experience. They devote their time to instructing farmers through demonstrations, personal conferences meetings, community organizations, publications and letters.

Home Economics Work.—This work is carried on under the immediate supervision of Winthrop College. It is, however, a part of the Extension work under the Smith-Lever Act, and is under the general direction of the Extension Service. Nearly every county is provided with one home demonstration agent in the same way that they are provided with county agents.

Negro Demonstration.—A few negro local agents are employed to work with the negro farmers of the state in sections where the negro population is great. These agents are employed in co-operation with the State College at Orangeburg, and the President of the State College acts as District Supervising Agent.

Live Stock.—Work in this project is carried on with the idea of promoting the live stock interest of the state along sound permanent lines, and much progress has been made during recent years especially with hogs. The remarkable increase in the number of hogs is no greater than the increase in quality. Those desiring to purchase pure breds can now, in most cases secure them within the state from breeders who have been assisted by the Extension Service. Live stock agents have also stimulated the growing of pastures and forage crops and have assisted in the feeding and marketing of cattle and the co-operative purchase of fencing materials.

Dairying.—The Extension dairymen devote their time chiefly to development work such as bull associations, feed campaigns, dairy schools, construction of silos, barns purchase of dairy cattle and the testing and improvement of herds. This state now ranks second in the United States in number of co-operative bull associations. The time has come when farmers wishing to purchase purebred dairy cattle can obtain first class animals within the state and very few importations are necessary.

Corn and Cotton Breeding.—Variety tests of corn and cotton are conducted in a dozen localities in the state along with demonstrations in the field selection of corn and cotton. Up to date this work has resulted in showing what varieties of corn and cotton are best adapted to different sections of the state, and farmers are generally planting those varieties. A number of communities are being given assistance in organizing for growing only one variety of cotton and one of corn.

Orchards, Gardens and Potato Storage Houses.—Orchard demonstrations, potato storage houses, home gardens and co-operative canneries are the principal lines of work developed by the Extension horticulturists. The results obtained in the last few years along these lines are far reaching, and point the way for the proper utilization of some of our acres under boll weevil conditions.

Poultry Work.—The plan is to establish and develop representative poultry plants in a number of counties in the state. These furnish reliable breeding centers from which pure bred poultry of popular breeds can be secured at reasonable prices by farmers and others. The wisdom of increasing the size and quality of farm flock is now being emphasized.

Marketing.—Efforts are made to secure convenient and profitable marketing arrangements for the various crops of the state especially truck. The organization of co-operative marketing associations is being encouraged. Proper grading and loading for shipment are stressed, particularly where farmers are just begining to produce a new crop.

Entomology.—There are two principal lines of this work; first boll weevil work, and second, bee keeping work. One specialist is employed who gives a part of his time to the boll weevil work, instructing farmers as to the life history, habits, etc., of the weevil and control measures.

A specialist in bee keeping is employed to develop this industry and it has been found that this state has great possibilities along this line.

Boys' Club Work and Short Course.—Corn clubs and pig clubs and other agricultural clubs are organized with the idea of enlisting the intelligent interest of the boys and through them their parents, in improved methods of agriculture. To the winners of certain contests short courses are provided at the College during the summer months.

Organizations.—Whenever conditions are suitable for community organizations, these are encouraged and the full support of the Extension Service is lent towards making them successful.

EXTENSION SERVICE STAFF

W. W. LONG	Director
D. W. WATKINS	Assistant Director
L. V. STARKEY	Chief, Animal Husbandry Division
W. J. SHEELY	Extension Livestock Agent
D. T. HERRMAN	Extension Swine Specialist, Aiken, S. C.
A. L. DuRANT	Livestock Agent, Florence, S. C.
J. P. LaMASTER,	Chief, Dairy Division
C. G. CUSHMAM,	Extension Agent in Dairying
W. J. KEEGAN,	Extension Agent in Dairying, Florence, S. C.
F. C. SHELTON,	Extension Agent in Dairying, Aiken, S. C.
C. P. BLACKWELL	Chief, Agronomy Division
N. E. WINTERS,	Extension Agronomist (soils & fertilizers)
J. L. CARBERY,	Extension Agronomist (plant breeding) Spartanburg, S. C.
S. L. JEFFORDS,	Extension Agronomist (forage crops) Spartanburg, S. C.
E. E. HALL,	Extension Agronomist (plant breeding) Florence, S. C.
P. H. SENN,	Extension Agronomist (plant breeding)
C. C. NEWMAN,	Chief, Horticultural Division
GEO. P. HOFFMANN,	Extension Horticulturist
A. E. SCHILLETTER,	Asst. Extension Horticulturist
RUDOLPH FARMER,	Asst. Extension Horticulturist
C. A. OWENS,	Asst. Extension Horticulturist
NORMAN R. MEHRHOF,	Extension Poultry Husbandman
FRED L. HARKEY	Agent in Marketing, Spartanburg, S. C.
L. H. LEWIS,	Extension Agent in Marketing, Florence, S. C.
D. D. WHITCOMB,	Extension Agent in Marketing, Aiken, S. C.
A. F. CONRADI,	Chief, Division of Entomology
E. S. PREVOST,	Bee Keeping Specialist
H. W. BARRE,	Chief, Div. of Botany & Plant Pathology
B. O. WILLIAMS	Agent Boys' Club Work
A. B. BRYAN,	Agricultural Editor

District Agents.

A. A. McKeown	First District	Rock Hill, S. C.
T. B. Young	Second District	Florence, S. C.
H. S. Johnson	Third District	Aiken, S. C.

COUNTY AGENTS.

Name	County	Post Office
Z. D. Robertson	Allendale	Allendale
	Abbeville	Abbeville
C. Lee Gowan	Aiken	Aiken
S. M. Byars	Anderson	Anderson
J. D. Brandon	Bamberg	Bamberg
H. G. Boylston	Barnwell	Blackville
C. L. Baxter	Beaufort	Beaufort
C. L. McCaslan	Calhoun	St. Matthews
	Berkeley	Monck's Corner
G. C. McDermid	Charleston	Charleston
H. K. Sanders	Chester	Chester
W. J. Tiller	Chesterfield	Chesterfield
S. C. Stribling	Cherokee	Gaffney
W. R. Gray	Clarendon	Manning
H. M. Kinsey	Colleton	Walterboro
A. H. Ward	Darlington	Darlington
S. W. Epps	Dillon	Latta
T. B. Brandon	Dorchester	St. George
	Edgefield	Edgefield
R. H. Lemmon	Fairfield	Winnsboro
J. W. McLendon	Florence	Florence
M. M. McCord	Georgetown	Georgetown
A. H. Chapman	Greenville	Greenville
E. P. Gulledge	Greenwood	Greenwood
W. O. Davis	Horry	Conway
Gus York	Hampton	Hampton
	Jasper	Ridgeland
J. W. Sanders	Kershaw	Camden
W. F. Howell	Lancaster	Lancaster
C. L. Vaughan	Laurens	Laurens
J. P. Quinerly	Lee	Bishopville
J. W. Shealy	Lexington	Ballentine
Colin McLaurin	Marion	Mullins
S. E. Evans	Marlboro	Bennettsville
	McCormick	McCormick
T. M. Mills	Newberry	Prosperity
	Oconee	Walhalla
L. S. Wolfe	Orangeburg	Orangeburg
Martin G. Smith	Orangeburg	Orangeburg
T. A. Bowen	Pickens	Pickens
J. R. Clark	Richland	Columbia
J. F. Williams	Sumter	Sumter
J. M. Eleazer	Saluda	Saluda
Earnest Carnes	Spartanburg	Spartanburg
W. D. Wood	Union	Union
T. M. Cathcart	Williamsburg	Kingstree
J. R. Blair	York	Sharon

PUBLIC SERVICE

Fertilizer Inspection and Analysis.—The work of fertilizer inspection and analysis is under the supervision of the Board of Control consisting of ex-Governor Richard I. Manning, chairman

J. E. Wannamaker of St. Matthews, J. J. Evans, Bennettsville, and H. C. Tillman, of Greenwood. The work of inspection is under the immediate supervision of H. M. Stackhouse, Secretary of the Board of Control.

There are ten inspectors to look after this feature of the work in different parts of the State.

The work of analysis is carried on in the Fertilizer Analysis Division of the Chemical Department and is under the supervision and direction of Dr. R. N. Brackett, Chief Chemist.

The work consists of the analysis of commercial fertilizers as provided for by the Fertilizer Law of the State. This Division also undertakes the analysis of waters, ores, minerals, and other naturally occurring materials, except soils (which are analysed by the Experiment Station), portions of human bodies in cases of suspected poisoning, as provided for by law, and the analysis of home-mixed fertilizers. All the work of this Division is done free of charge.

Entomological and Pathological Inspection.—This work is carried on under the direction of the State Crop Pest Commission.

The State Entomologist is Prof. A. F. Conradi, head of the division of Entomology, and the State Pathologist is H. W. Barre, head of the division of Botany and Bacteriology.

The work of these officers consists of the control of contagious plant diseases and insect pests. The State Entomologist has also supervision of all nursery stock sold within the State.

A permit tag issued by the State Crop Pest Commission should be attached to every package of nursery stock seed or plants offered for sale or shipment for planting purposes.

Agricultural and Textile Scholarships.—The college maintains 170 four-year agricultural and textile scholarships, and fifty-two one-year agricultural scholarships. Each scholarship is worth $100 and free tuition. The cost of these scholarships is paid out of the fertilizer tax, as the State makes no appropriation therefor.

The annual cost of these scholarships, including advertising, expense of holding examinations, etc., is about $20,000.00.

School Houses.—The college also furnishes free plans and specifications for rural school buildings to school trustees desiring to erect a new school house, and will advise and furnish drawings for alterations of old school houses. This work was undertaken at the request of and under the direction of the State Superintendent of Education. Further information and a copy of a bulletin on "Rural School Buildings" will be furnished by Rudolph E. Lee, college architect, upon request. More than one thousand plans have been sent to trustees in this state and many in other states.

Miscellaneous.—In addition to the above regular lines of activity, the College manufactures at cost the **South Carolina flag** in a number of different sizes, makes annually an exhibit at the State Fair, and engages in other miscellaneous activities.

LIVE STOCK SANITARY WORK

The Clemson College Live Stock Sanitary Office is a department of Clemson College and is under the supervision of the Agricultural Committee of the Board of Trustees. This office is located in Columbia, S. C., in order that the best interests of the livestock industry may be served, and is in charge of the State Veterinarian, Dr. W. K. Lewis, who is also Director of this Department.

The principal functions of this office are: Tick Eradication, Tuberculosis Eradication and Hog Cholera Control. In addition to these, all reported outbreaks of contagious, infectious and communicable diseases of live stock are investigated, and measures recommended for the control and eradication of the specific condition; and quarantine is maintained against the introduction of diseased livestock into the State.

The Columbia office has recently established a fully equipped laboratory for bacteriological and pathological work, in order that proper and prompt diagnosis of certain diseases may be made. Parasitic research work will be conducted in various sections of the State in connection with the Columbia laboratory.

In addition to the force of veterinarians working out from the Columbia office, Assistant State Veterinarians are located at strategical points in the State so as to be readily available to the farmers in their respective territories.

On July 1, 1922 twenty-seven (27) practicing veterinarians of the State were commissioned as Deputy State Veterinarians, to assist the State Veterinarian in the control and eradication of contagious and infectious diseases of livestock. The Deputy State Veterinarians are located principally in the northern and eastern sections of the State, and with the Assistant State Veterinarians located in the middle and southern sections of the State, the Clemson College Live Stock Sanitary Office is in position to render a service to the livestock industry of the State in keeping with its development and maintain the service to the highest degree of efficiency.

The Clemson College Live Stock Sanitary Office also maintains an equipment for handling large stocks of anti-hog cholera serum, virus and veterinary biologics and furnishes these products to the citizens of the State at cost, thereby effecting a saving to them of several thousands of dollars annually.

The live stock sanitary work is required by legislative enactment and is supported by legislative appropriations.

The Bureau of Animal Industry, U. S. Department of Agriculture, co-operates in Tick Eradication, Tuberculosis Eradication, and Hog Cholera Control, and duplicates the amounts appropriated by the State Legislature for these projects.

List of employees engaged in livestock sanitary work:—

State Veterinarian and Director.—W. K. Lewis.

Laboratory Veterinarian.—J. H .Reitz.

Assistant State Veterinarians.—H. S. Brundage, E. T. Fisher, H. B. Hood, W. D. McCormack, R. A. Mays, F. K. Peterson, S. D Shoulkin, S. M. Witherspoon, Jr,, M. L. Boyd.

Clerks.—R. K. Donly, J. E. Wilson, J. M. Leaphart.

Deputy State Veterinarians.—R. M. Bailey, W. A. Barnette, M. R. Blackstock, J. W. Boylston, F. P. Caughman, J. T. Dixon, H. P. Dyches, C. H. Ellis, Jr., Louis Friedham, H. L. Frieze, R. H. Glenn, M. Harkavy, J. W. Henagan, J. E. Hollis, O'Neal Jacobs, T. B. Jacobs, R. R. Jeter, T. J. Kinard, F. E Kitchen, G J. Lawhorn, W. K. Magill, J. H. Morse, Benj. McInnes, B. K. McInnes, R. R. Salley, E. P. Stanton, B. C. Talley.

THE SOUTH CAROLINA AGRICULTURAL EXPERIMENT STATION

The Agricultural Experiment Station of South Carolina is a department of Clemson College. The experiment station at present consists of the main station, which is located at Clemson, and two sub-stations, one in the coast region, located at Summerville, and one in the Pee Dee section, located at Florence. The main offices and laboratories of the station occupy the second floor of the Agricultural Hall, while the station experiment farm, consisting of about 200 acres, is east of and adjoining the college campus. The investigations dealing with the fundamental principles of agricultural sciences and with the application of such principles to practical agricultural operations are carried on in the laboratories and on the experiment station farm at Clemson. The experiments looking to the adaptation of such scientific data accumulated here and elsewhere to the conditions peculiar to certain sections of the State are carried on at the sub-stations and at branch laboratories established in certain sections of the State for this purpose.

It is the aim of the experiment station to carry on research work on problems which have a direct practical bearing on the agriculture of the State. With this end in view elaborate experiments relative to the best methods of procedure under various conditions with the principal plants and animals have been undertaken. As progress is made with such experiments the results obtained are given out to farmers in the form of bulletins, circulars and personal letters. Since the establishment of the station 215 such bulletins and 30 circulars have been published, covering practically all phases of agriculture.

Aside from the research work and the publication of results obtained from such research the experiment station performs various other duties. Among these might be mentioned the entomological and pathological inspection work which aims to protect the farms, orchards and gardens of the State against the introduction of injurious insects and diseases; the biological and soil survey of the State; and the cooperative experimental work carried on with hundreds of farmers in the State. The technically trained experts of the station staff are regarded as authorities in their several specialties and they are constantly giving out information relating to the various lines of agricultural endeavor. More than fourteen thousand personal and circular letters are written annually to residents of the State giving technical information to individuals on special subjects. The station staff also aids in disseminating agricultural knowledge by co-operating with the Extension Service of the college in holding agricultural meetings and conferences and by meeting with the farm demonstration agents and giving to them technical information which they in turn carry through the demonstration work direct to the farmers.

Close cooperation is maintained with the various research bureaus of the National Department of Agriculture and with the departments of the college. The laboratories are always open to the inspection of the students and other people of the State. The same is true of the experiment station farm. There is always opportunity for a limited number of students to secure work in the various divisions of the station and to assist in the research work carried on by the members of the station staff.

All publications of the experiment station are sent free upon request to any resident of the State. Requests for these should be addressed to H. W. Barre, Director, Clemson College, S. C.

Cooperative Experimental Work.—This work is carried on under the supervision of the Director of the Experiment Station. Many farmers are enrolled in this important line, which includes a repetition of many of the experiments conducted at the parent experiment station located at the college. Co-operative experimental work is intended to verify new facts and laws under the various soil and climate conditions in South Carolina.

Branch Experiment Stations.—In order to reinforce the main experiment station located at the college, two additional branch stations have already been established, one at Drainland in the coastal plain, and another near Florence, in the Pee Dee section. It is planned to locate a third station in the Sand Hill section of the State as soon as the college has funds for this extension.

These stations are devoted primarily to experiment work. They also form centers of dissemination for the information which the college has to give to the people.

EXPERIMENT STATION STAFF

H. W. BARRE, A. M., Botanist and Director.
C. C. NEWMAN, B. S., Horticulturist.
A. F. CONRADI, M. S., Entomologist.
R. O. FEELEY, D. V. S., Consulting Veterinarian.
C. P. BLACKWELL, M. S., Agronomist.
A. B. BRYAN, B. S., Litt., Agricultural Editor.
L. V. STARKEY, M. S., Animal Husbandman.
J. P. LaMASTER, B. S. Agr., Dairyman.
R. N. BRACKETT, Ph. D., Chemist.
C. S. PATRICK, B. S., Supt. of Experiment Station Farms.
W. L. LIPPINCOTT, B. Chem., Chemist.
C. A. LUDWIG, Ph. D., Associate Botanist and Plant Pathologist.
W. B. AULL, B. S., Associate Bacteriologist.
C. B. NICKELS, M. S. Research Assistant Entomologist.
T. S. BUIE, B. S., Assistant Agronomist.
A. M. MUSSER, M. S., Associate Horticulturist.
E. G. GODBEY, B. S. A. Assistant Animal Husbandman.
G. H. AULL, B. S., Assistant to the Director.
I. R. JONES, M. S., Assistant Dairyman.
W. B. ROGERS, B. S., Assistant Agronomist.
R. E. CURRIN, Supt. of Pee Dee Expt. Station, Florence, S. C.
J. A. RILEY, M. S., Supt. of Coast Expt. Station, Summerville, S. C.
E. D. KYZER, B. S., Research Assistant.
BURNS GILLISON, Foreman of Experiment Station Farm.
HELEN SLOAN TORRENCE, Expt. Station Librarian.
JULIA A. HOOK, Mailing Clerk.

ALUMNI ORGANIZATION

CLEMSON COLLEGE ALUMNI ASSOCIATION

The Alumni Association has established a permanent office in the Y. M. C. A. building on the campus and has employed a full time secretary with necessary office assistants to carry on the work of the Association. This office is a clearing house for all matters concerning the alumni. Its purpose is to serve the college and the alumni in every way possible.

OFFICERS OF THE ASSOCIATION

B. R. TURNIPSEED ‘96	President
W. J. HUNTER, ‘15	First Vice-President
S. R. FINLEY, ‘18	Second Vice-President
R. M. SIMPSON, ‘10	Third Vice-President
G. W. SPEER, ‘08	Acting Secretary-Treasurer

GOVERNING BOARD

H. C. WANNAMAKER, ‘16	Term expires 1927
H. S. JOHNSON, ‘10	Term expires 1926
T. B. YOUNG, ‘03	Term expires 1925
T. W. THORNHILL, 14	Term expires 1924
R. M. SIMPSON, ‘10	Term expires 1923
B. R. TURNIPSEED, ‘96	Ex-officio
G. W. SPEER, ‘08	Ex-officio

THE CORPS OF CADETS

1922-1923

UNITED STATES ARMY PERSONNEL

Major Madison Pearson,	Infantry
Captain Henry W. Lee	Infantry
Captain Alfred G. Braden Jr.	Infantry
Captain Thomas E. Roderick	Infantry
Captain Thomas E. May	Infantry
Captain Loyd Van Horne Durfee,	Infantry
Lieutenant Lawrence L. Cobb	Infantry
Lieutenant Harold R. Emery,	Infantry
Staff Sergeant Chas. W. Cripps,	Infantry
Sergeant Frank S. Singer	Infantry
Sergeant Joseph Polowe,	Infantry

REGIMENTAL ORGANIZATION

Colonel E. H. Emanuel
Lieutenant Colonel L. B. Dyches
Captain J. L. Nichols, Adjutant
Captain E. S. Day, Intelligence Officer
Captain C. H. Ellison, Operations Officer
Captain P. M. Garvin, Personnel Adjutant
Captain E. B. Savage, Supply Officer
Captain G. L. Wade, Assistant Supply Officer
Captain H. A. Hunter, Assistant Operations Officer
Regimental Sergeant Major F. S. Fayssoux
Regimental Supply Sergeant T. J. Reames
Color Sergeant D. H. Hair
Color Sergeant T. C. Wood

BAND

CAPTAIN	A. N. Allan
SECOND LIEUTENANT	B. C. Littlejohn
SECOND LIEUTENANT	D. H. Marshall
DRUM MAJOR	C. C. Garrison
SERGEANT	T. W. Lenoir
SERGEANT	W. S. Ray

FIRST BATTALION

Major	H. A. **Woodle**
First Lieutenant	J. O. Pepper, Adjutant
First Lieutenant	T. G. Hendricks, Intelligence Officer
First Lieutenant	W. D. McGowan, Operations Officer
Battalion Sergeant Major	O. F. Davenport

Co. A	**Co. B**	**Co. C**	**Co. D**
CAPTAINS			
T. R. Vogel	J. M. Bankhead	C. T. Young	J. McMahan
FIRST LIEUTENANTS			
M. A. **LeGette,**	S. C. Rice	F. E. Dunham	S. H. Mikell
SECOND LIEUTENANTS			
W. M. Ballenger	W. D. Banks	L. S. Bigby	W. H. Gray
C. W. Sanders	W. J. Clapp	J. C. Crenshaw	I. L. Hinson
B. R. Fudge	D. B. Jones	L. A. Fletcher	H. L. Hinson
S. A. Harvey	M. R. Reese	P. H. Gooding	M. V. Martin
J. E. Hodge	F. R. Ryan	M. B. Hoffman	E. C. O'Bryan
L. F. Horton	E. B. Williams	T. S. Smith	E. C. Wiggins
M. L. Jones			
FIRST SERGEANTS			
G. M. Speer	H. B. Dominick	M. R. Warner	J. W. Smyly
SERGEANTS			
F. F. Dean	M. L. McClimon	N. M. Bradley	W. H. Moore
M. C. Ellison	J. E. Ross	A. B. Fitzgerald	A. O. Roberts
R. E. Hiller	T. L. Vaughan	E. H. Hall	J. H. Sams
H. H. Howard		J. R. Haynesworth	W. R. Smith
E. K. Jones			
CORPORALS			
C. N. Cobb	T. H. Clarke	F. E. Buck	W. E. Jordon
W. F. Covin	T. E. Goodale	T. H. Floyd	W. H. Cobb
F. H. Prevost	C. L. Kehew	C. S. Johnson	C. D. Faires
E. C. Stewart	E. L. Smith	L. G. Trimmier	S. E. Harmon
	C. E. Welling	W. B. Williams	D. O. Herbert
			H. B. Webb.

SECOND BATTALION

Major	E. A. Smyth
First Lieutenant	J. H. Webb, Adjutant
First Lieutenant	E. C. Ricker, Intellegence Officer
First Lieutenant	B. F. Robertson, Operations Officer
Battalion Sergeant Major	S. S. Be

Co. E	Co. F	Co. G	Co. H
CAPTAINS			
J. K. Dorman	J. J. Koopman	H. W. Cauthen	F. M. Zeigler
FIRST LIEUTENANTS			
P. Peeples	J. S. Williams	E. D. Timmons	J. E. Crosland
SECOND LIEUTENANTS			
L. W. Arnold	G. T. Bryan	C. J. Cate	C. R. Davis
W. J. Roberts	B. F. Duckworth	J. C. Cheatham	F. R. McMeekin
N. P. Shealy	J. H. Erskine	F. L. Gambrell	S. C. McMeekin
L. L. Benton	K. B. Simmons	B. B. Guy	E. H. Shands
	J. P. Smith	F. P. LaBoone	C. B. Snead
	E. A. Thompson	A. B. Rasor	C. E. Vincent
	N. R. Till	L. C. Timmons	
		J. L. Weeks	
FIRST SERGEANTS			
A. L. McCrary	J. B. Owens	H. P. Walker	S. A. Rodgers
SERGEANTS			
J. P. Gaston	E. R. Alford	G. B. Lang	B. S. Brown
W. A. Mason	M. R. Brissie	M. R. Leach	L. H. Doar
R. W. Pugh	J. F. Jones	L. R. Shirly	J. J. Brown
T. E. D. Woodward	J. C. Mace	R. S. Stribling	F. C. McLees
CORPORALS			
B. W. Freeland	H. B. Flowers	J. E. Darby	E. A. Cannon
P. W. Moore	W. C. Gordon	W. V. Haas	E. S. Herlong
W. P. Taber	J. H. Keel	G. P. Jeffords	D. A. Reid
	C. A. Robinson	W. A. Keller	A. C. Robinson
	H. R. Woodside	D. Roark	S. E. Smith
		R. B. Roark	A. B. Tennant

THIRD BATTALION

Major	R. W. Coarsey
First Lieutenant	J. N. Miley, Adjutant
First Lieutenant	B. A. Russell, Intelligence Officer
First Lieutenant	J. S. Thurmond, Operations Officer
Battalion Sergeant Major	B. A. Pruitt

Co. I	Co. K	Co. L	Co. M
		CAPTAINS	
W. H. Grier	F. W. Taylor	R. B. Werts	R. L. Hartley
		FIRST LIEUTENANTS	
J. P. Richards	C. A. Stevenson	H. W. Conder	L. Boozer
		SECOND LIEUTENANTS	
J. L. Betsill	I. E. Davis	S. C. Hunter	J. F. Coleman
J. L. Cunningham	A. J. Knight	A. K. Inman	E. P. Davis
R. Davis	E. O. Linder	F. G. Martin	W. A. Dukes
R. E. Howell	H. Steele	P. G. Plexico	M. A. Willis
J. H. Hunter	R. A. Stevenson	J. T. Wigington	P. N. Wise
W. H. Odom			L. W. Youmans
		FIRST SERGEANTS	
L. C. Wright	G. J. S. Cappleman	W. W. Spearman	M. B. Oliver
		SERGEANTS	
E. W. Copeland	B. D. Ezell.	R. G. Shands	M. A. Evans
J. K. Griffin	A. R. Floyd	C. C. Stuckey	H. W. Fletcher
R. L. Griffin	H. D. Knight	J. B. Talbert	L. A Hendricks
C. F. Rhem	A Shoolbred	J. E. Wiggins	W. M. Wade
		CORPORALS	
J. W. Chandler	J. W. Blair	H. G. Croskeys	R. L. Bunch
E. M. Friar	T. E. McLeod	G. I. Finklea	F. H. Colbert
L. W. Jacobi	B. L. Murr	J. S. Holmes	J. A. Dacus
H. D. Mullins	G. E. Phifer	O. F. Hutto	O. B. Prause
	R. L. Zeigler	T. H. Pope	L. T. Stello

MACHINE GUN COMPANY

Captain	W. L. Ballentine
First Lieutenant	R. M. Erwin
First Lieutenant	H. F. Tate
First Lieutenant	W. F. Wray
Second Lieutenant	H. A. Bowers
Second Lieutenant	B. F. Driggers
Second Lieutenant	J. M. Dunlap
First Sergeant	S. S. Hamilton

SERGEANTS	CORPORALS
J. H. Alexander	T. C. Blount
C. C. Burton	P. W. Coleman
D. F. Livingston	R. F. Holahan
W. B. Smith	J. A. Shockley
L. R. Young	

REGISTER OF STUDENTS.

Abbreviations: A-Agriculture unclassified; the numerals I, II, etc. following the letter A, indicates the majors listed on pages 52, 53; AE-Architecture; C-Chemistry; ChE-Chemical Engineering; CE-Civil Engineering; E-Engineering unclassified; EE-Electrical Engineering; ME-Mechanical Engineering; T-Textile Engineering; FB-Federal Board student in regular classes.

s Indicates scholarship student. County and city are the same if street only is given.

DEGREES CONFERRED 1922

BACHELOR OF SCIENCE

s Indicates scholarship student. County and city are the same if street only is given.

Name and Course	County	Residence
Ackerman, T. H. (ME)	Dorchester	St. George
Altman, H. S. (CE)	Horry	R. 1, Galivant's Ferry
Armstrong, H. (EE)	Greenville	Fountain Inn
Armstrong, J. B. (CE)	Barnwell	Barnwell
Auten, J. F. (CE)	Darlington	Hartsville
Bailes, J. P. (AI)	Lancaster	R. 2, Fort.... Mill
s Bailey, E. M. (AVII)	Charleston	R. 1, Martin's Point
Baumann, J. H. (CE)	Greenville	105 Hampton Ave.
Berry, J. B. (ME)	Greenville	328 Lawton Ave
Bogard, W. P. (AV)		Russellville, Ark.
Boone, S. C. (C)	Darlington	R. 1, Hartsville
Britt, W. E. (AII)	McCormick	R. 1, McCormick
Burckmyer, L. A. (EE)	Aiken	North Augusta
Bussey, J. C. (CE)	McCormick	Parksville
s Butler, C. M. (T)	Darlington	Hartsville
s Cannon, C. B. (AI)	Anderson	R. 1, Honea Path
Cannon, W. S. (C)	Spartanburg	135 Elford Terrace
Carter, R. E. (AIV)	Hampton	Varnville
Clatworthy, W. M. (EE)	Anderson	Honea Path
Coleman, D. (T)	Newberry	Chappells
Coleman, J. V. (EE)	Saluda	R. 1, Silver St.
Coleman, R. L. (AI)	Richland	R..... 2, Hopkins
Crosland, T. M. (T)	Marlboro	Bennettsville.
s Crowther, C. C. (AVII)	Abbeville	R. 1, Antreville
Culbertson, J. A. (AI)	Laurens	R. 1, Ware Shoals
Denaro, J. M. (AVII)	Charleston	4, Percy St.
Derham, E. M. (CE)	Horry	Green Sea
Dorn, W. L. (T)	Oconee	Westminister
Dunlap, J. H. (EE)	Laurens	Laurens
Eleazer, L. H. (AI)	Richland	Chapin
Epting, C. V. (EE)	Lexington	R. 1, Peak
Eubanks, J. B. (CE)	Aiken	1804 Park Ave.
Fields, J. N. (AIV)	Lee	R. 3, Lamar
Fink, B. L. (T)	Lexington	Batesburg

Name and Course	County	Residence
Freeman, E. J. (ME)	Spartanburg	379 S. Church St.
Freeman, R. A. (AE)	Spartanburg	379 S. Church St.
s Fripp, W. T. (AIV)	Jasper	R. 1, Tillman
Fuller, E. P. (T)	Laurens	Laurens
Gaines, H. I. (AE)	Pickens	Central
s Gaines, J. G. (AV)	Anderson	Honea Path
Garrett, W. F. (T)	Greenwood	Greenwood
Gentry, L. M. (AVII)	Spartanburg	Landrum
Geraty, J. W. (AVII)	Charleston	Yonges Island
Gibson, J. W. (AIV)	Orangeburg	R. 1, Cordova
Graham, R. N. (CE)	Greenwood	R. 2, Hodges
Hair, A. B. (EE)	Barnwell	Barnwelll
Halstead, R. T. (C)	Spartanburg	111 Rutledge Ave.
Hardin, W. R. (EE)	Fairfield	Winnsboro
s Harris, O. P. (T)	Lancaster	R. 3, Fort Mill
s Harvin, J. L. (AIV)	Clarendon	Pinewood
Hellams, J. I. (AIV)	Greenville	R. 1, Travelers Rest
Herron, R. P. (AIV)	Anderson	Starr
Hill, A. M. (ME)	Abbeville	Abbeville
Hipp, R. (AIII)	Newberry	Pomaria
Hollowell, J. G. (CE)	Richland	9 Gibbs Court, Columbia
Hollowell, J. R. (CE)	Richland	9 Gibbs Court, Columbia
Hood, H. W. (EE)	Marion	Mullins
s Howell, L. M. (T)	Marlboro	Bennettsvilel
Jenkins, E. M. (AVII)	Charleston	Edisto Island
Johnson, J. M. (EE)	Abbeville	Abbeville
Jones, H. J. (EE)	Richland	R. 1, Congaree
Jones, R. W. (CE)	Anderson	R. 2, Starr
Kay, A. E. (ME)	Pickens	R. 2, Easley
Kinard, J. P. (T)	York	Rock Hill
Knight, O. J. (AIV)	Laurens	R. 2, Ware Shoals
Laurey, H. E. (C)	Charleston	71 Society St.
Logan, F. R. (T)	York	York
McCants, L. A. (CE)	Charleston	Mt. Pleasant
McLaurin, E. B. (T)	Marlboro	McColl
Mackey, M. S. (AIV)	Orangeburg	R. 1, Orangeburg
Madden, L. E. (C)	Richland	1408 Hampton Ave., Columbia
Mann, M. E. (EE)	Beaufort	Beaufort
Marscher, A. A. (AIV)	Beaufort	Beaufort
Martin, J. V. (CE)	Charleston	193 Rutledge Ave.
Martin, S. M. (C)	Oconee	Clemson College
Merchant, V. E. (EE)	Saluda	Ridge Spring
s Middleton, W. S. (AVII)	Oconee	Clemson College
Mikell, I. J. (ME)	Charleston	Edisto Island
Miley, L. (ME)	Hampton	Brunson
Molair, W. L. (AII)	Barnwell	Barnwell
s Morgan, T. W. (AV)	Spartanburg	R. 1, Wellford
Moss, J. H. (CE)	Oconee	Walhalla
Nettles, H. E. (ME)	Kershaw	R. 2, Lugoff
Nimitz, A. E. (AE)	Charleston	Charleston
O'Neill, B. (ME)	Charleston	42 Savage St.
s Parnell, H. M. (AV)	Jasper	Gillisonville
Price, G. D. (CE)	Richland	Eastover
Quinn, J. W. (T)	York	York
Reardin, J. R. (ME)	Aiken	Graniteville
Redfern, W. M. (AII)		Wadesboro, N. C.

Name and Course	County	Residence
Ricker, G. F. (ME)	Beaufort	Beaufort
s Robinson, H. E. (Av)	York	R. 1, Sharon
Rosa, J. R. (ME)	Georgetown	Georgetown
Salley, H. B. (AI)	Orangeburg	Salley
Salley, N. R. (AI)	Aiken	Salley
Sams, M. W. (T)	Spartanburg	338 Spring St.
✓ Saunders, H. M. (AII)	Colleton	Walterboro
Schilletter, J. C. (AVII)	Oconee	Clemson College
Seabrook, O. F. (AVII)	Charleston	Martins Point
Seabrook, T. H. (AIV)	Charleston	R. 1, Charleston
Shiver, N. C. (AI)	Oconee	Clemson College
Simmons, T. D. (EE)	Orangeburg	Rowesville
Smith, C. E. (ME)	Greenville	Maryland Apts. No. 6
Smith T. D. (EE)	Cherokee	Blacksburg
s Stevenson, D. W. (T)	Chester	R. 1, Richburg
Stevenson, H. F. (AIV)	Chester	R. 1, Richburg
Stewart, J. M. (CE)	York	Rock Hill
Stribling, W. J. (CE)	Oconee	R. 1, Walhalla
Summers, D. K. (AI)	Calhoun	Cameron
s Swetenburg, J. R. (T)	Abbeville	Abbeville
Taylor, F. E. (AIV)		135 Hines Terrace Macon, Ga.
Taylor, T. (C)		218 Liberty St., Savannah, Ga.
Thomas, F. E. (ME)	Hampton	Hampton
Thompson, J. T. (EE)	Anderson	Anderson
Tillotson, W. E. (C)	Darlington	Hartsville
s Townsend, J. C. (AVII)	Charleston	R. 1, Martins Point
Traxler, D. W. (AI)	Orangeburg	R. 3, Bowman
Tyler, W. P. (EE)	Aiken	Windsor
Wallace, F. H. (CE)	Newberry	Kinards
Wallace, N. L. (EE)	Laurens	Bryson
Warner, J. D. (AI)	Greenwood	R. 2, Greenwood
✓ Waters, P. B. (AII)	Saluda	Saluda
Wells, W. R. (AI)	Sumter	R. 5, Sumter
s Whaley, E. C. (AVII)	Charleston	R. 5, Martins Point
Wilhite, F. T. (ME)	Anderson	Anderson
Williams, E. W. (EE)	Union	Jonesville
Williams, N. (CE)	Pickens	Easley
✓ s Williams, S. A. (AII)	Abbeville	Abbeville
Wilson, J. W. (ME)	Abbeville	Abbeville
Wood, H. H. (AIV)	Laurens	R. 4, Honea Path
Woodside, H. F. (EE)	Laurens	Laurens
Woodward, W. (T)	Aiken	North Augusta

SENIOR CLASS

s Indicates scholarship student. County and city are the same if street only is given.

Name and Course	County	Residence
Allan, A. N. (ME)	Dorchester	Summerville
s Arnold, L. W. (AV)	Pickens	R. 1, Central
Ballenger, W. M. (EE)	Greenville	Greer
Ballentine, W. L. (CE)	Greenville	216 Rutherford St.
Bankhead, J. M. (C)	Chester	Lowryville
Banks, R. W. (AIV)	Calhoun	St. Matthews
Benton, L. L. (AI)	Florence	R. 3, Box 167, Timmonsville
Betsill, J. L. (Ch.E)	Union	Union
Bigby, L. S. (ME)	Anderson	Williamston

Name and Course	County	Residence
Boozer, L. (EE)	Newberry	Prosperity
s Bowers, H. A. (AVII)	Hampton	Hampton
Bryan, G. T. (CE)	Greenville	768 N. Main St.
Calhoun, C. F. (EE)	Darlington	R. 1, Dovesville
Cauthen, H. W. (EE)	Calhoun	Ft. Motte
Chaney, W. B. (F. B.) (EE)	Union	R. 1, Sedalia
Cheatham, J. C. (ME)	Abbeville	Abbeville
Clapp, W. J. (EE)	Laurens	Clinton
Coarsey, R. W. (AIV)	Oconee	Clemson College
Coleman, J. F. (EE)	Abbeville	19 Greenville St.
Condor, H. W. (AIV)	Darlington	R. 4, Darlington
Crenshaw, J. C. (ME)	Anderson	Pelzer
Crosland, J. E. (T)	Marlboro	Bennettsville
Cunningham, J. L. (AE)	Greenville	Greer
Davis, C. R. (T)	Oconee	Fair Play
Davis, E. P. (ME)	Greenville	205 River St.
Davis, I. E. (T)	Williamsburg	Salters Depot
Davis, R. (AII)	Charleston	R. 1, Martins Point
Day, E. S. (EE)	Anderson	Pendleton
s Dorman, J. K. (AV)	Horry	Conway
Driggers, B. F. (AVI)	Marion	Sellers
Duckworth, B. F. (EE)	Anderson	332 River St.
Dukes, W. A. (EE)	Orangeburg	Branchville
Dunham, F. E. (ME)		Stuart, Fla.
Odom, W. H. (T)	Chesterfield	Chesterfield
Pate, C. P. (AIV) (F. B)	Darlington	R. 1, Lamar
Peeples, P. (EE)	Beaufort	Bluffton
Pepper, J. O. (AII)	Anderson	R. 5, Easley
Plexico, P. G. (AIV)	York	Rock Hill
Rasor, A. B. (EE)	Greenwood	R. 1, Donalds
Reese, M. R. (ME)	Greenville	R. 3, Greer
Rice, S. C. (EE)	Union	Union
s Richards, J. P. (I)	Kershaw	Liberty Hill
Ricker, E. C. (ME)	Beaufort	Beaufort
s Roberts, W. J. (AIV)	Greenwood	Ninety Six
Robertson, B. F. (AVII)	Pickens	Clemson College
Russell, B. A. (AI)	Anderson	Autun
Ryan, F. R. (AV)	Sumter	Wedgefield
Sanders, C. W. (AIV)	Sumter	Hagood
Savage, E. B. (EE)	Orangeburg	Eutawville
Shands, E. H. (ME)	Spartanburg	Campobello
Shealy, A. N. (EE)	Aiken	Perry
Simmons, K. B. (AVII)	Orangeburg	Rowesville
Smith, J. P. (CE)	Charleston	24 President St.
Smith, T. S. (AI)	Orangeburg	Springfield
Smyth, E. A. (ME)		R. 1, Flat Rock, N. C.
Snead, C. B. (T)	Greenwood	Greenwood
Steele, H. (ME)	Williamsburg	Kingstree
Stevenson, C. A. (T)	Charleston	45 E. Bay St.
s Stevenson, R. A. (AVI)	Chester	R. 1, Richburg
Tate, H. F. (AI)		Union Mill, N. C.
Taylor, F. W. (AV)	Greenville	R. 3, Fountain Inn
Thompson, E. A. (CE)	Orangeburg	R. 1, Reevesville
Thurmond, J. S. (AVII)	Edgefield	Edgefield
Till, N. R. (CE)	Orangeburg	R. 1, Orangeburg
Timmons, E. D. (Ch.E)	Lancaster	Heath Springs
Timmons, L. C. (AE)	Lancaster	Heath Springs

Name and Course	County	Residence
Vincent, C. E. (T)	Orangeburg	Orangeburg
Vogel, T. R. (ME)	1355 Parkwood Place N. W.	Washington, D.C.
Wade, G. L. (AIII)	Chester	Chester
Webb, J. H. (EE)	Anderson	1021 Market St
Weeks, J. L. (EE)	Orangeburg	52 Glover St.
Werts, R. B. (ME)	Newberry	R. 3, Newberry
Wiggins, E. C. (CE)	Hampton	Garnett
Wigington, J. T. (T)	Anderson	217 Bleckley St
Williams, E. B. (EE)	Lancaster	Kershaw
Williams, J. S. (CE)	103 East Clifton Terrace N. W.	Washington
Willis, M. A. (AI)	Barnwell	Williston
Wise, P. N. (AIV)	Saluda	R. 2, Batesburg
s Woodle, H. A. (AV)	Greenwood	Greenwood
Wray, A. F. (EE)	York	York
Yeomans, L. W. (AIV)	Allendale	Fairfax
s Young, C. T. (AIII)	Greenwood	125 Court St.
Zeigler, F. (ME)	Bamberg	Denmark
Dunlap, J. M. (AIV)	Anderson	Honea Path
Dyches, L. B. (EE)	Barnwell	Blackville
Ellison, C. H. (CE)	Oconee	Seneca
Emanuel, E. H. (AVII)	Sumter	Borden
Erskine, J. H. (EE)	Anderson	924 Power St.
Erwin, R. M. (T)	York	Fort Mill
s Fletcher, L. A. (AVII)	Marlboro	R. 2, Bennettsville
Fudge, B. R. (AI)	York	R. 2, Rock Hill
Gambrell, F. L. (AVI)	Anderson	R. 3 Pendleton
s Garvin, P. M. (AVII)	Anderson	Pendleton
Gooding, P. H. (AII)	Hampton	R. 1, Hampton
Gray, W. H. (T)	Spartanburg	Woodruff
s Grier, W. H. (T)	York	Fort Mill
Guy, B. B. (ME)	Richland	Drawer 189, Columbia
Hartley, R. L. (CE)	Lexington	Batesburg
s Harvey, S. A. (AIII)	Fairfield	R. 1, Woodward
Hendricks, T. G. (ME)	Spartanburg	R. 1, Duncan
Hinson, H. L. (AII)	Florence	Scranton
s Hinson, I. L. (AII)	Florence	Scranton
Hodge, J. E. (T)	Clarendon	R. 1, Manning
s Hoffman, M. B. (AVII)	Richland	Blythewood
s Horton, L. F. (AV)	York	R. 1, Sharon
Howell, R. E. (Ch.E)	Union	Buffalo
Hunter, H. A. (AI)	Laurens	Clinton
s Hunter, J. H. (AI)	Newberry	R. 2, Prosperity
Hunter, S. C. (ME)	Oconee	R. 1, Westminister
Inman, A. K. (AI)	Cherokee	R. 1, Wilkinsville
Jones, D. B. (EE)	Georgetown	Georgetown
s Jones, M. L. (AVII)	Fairfield	Longtown
Knight, A. J. (AV)	Laurens	R. 2, Ware Shoals
Koopmann, J. J. (EE)	Orangeburg	Eutawville
LaBoone, F. P. (CE)	Anderson	R. 4, Anderson
LeGette, M. A. (ME)	Dillon	Latta
s Linder, E. O. (T)	Charleston	Adams Run
Littlejohn, B. C. (EE)	Union	Jonesville
s McGowan, W. D. (AV)	Calhoun	Cameron
McHugh, J. B. (Ch.E)	Pickens	Clemson College
McMahan, J. (CE)	Oconee	Richland
McMeekin, S. C. (ME)	Fairfield	Jenkinsville
McMeekin, F. R. (EE)	Fairfield	Monticello

	Name and Course	County	Residence
	Marshall, D. H. (T)	Greenville	R. 3, Greenville
s	Martin, F. G. (AIV)	Greenwood	Ninety Six
	Merck, W. L. (AIV)	Pickens	Calhoun
	Mikell, S. H. (ME)	Charleston	Edisto Island
	Miley, J. N. (AII)	Orangeburg	Branchville
	Mills, W. H. (CE)	Oconee	Clemson College
	Nichols, J. L. (AVII)	York	R. 4, Rock Hill
	O'Bryan, M. B. (AV)	Williamsburg	Heinmann

JUNIOR CLASS

s Indicates scholarship student. County and city are the same if street only is given.

	Name and Course	County	Residence
	Alexander, J. H. (A)	Oconee	Walhalla
	Alford, E. R. (A)	Dillon	R. 1, Latta
	Anderson, E. K. (E)		Auburndale Fla.
	Anderson, W. T. (CE)	Oconee	Seneca
s	Aull, J. C. (A)	Newberry	Pomaria
	Bass, F. J. (CE)	Sumter	Mayesville
	Bee, S. S. (A)	Charleston	R. 4, Charleston
	Bodiford, H. O. (F.B.) (AE)	Barnwell	R. 1, Blackville
	Boynton, C. W. (E)	Colleton	R. 1, White Hall
	Bradley, N. M. (T)	Sumter	Sumter
s	Brissie, M. B. (A)	Greenwood	Hodges
	Brown, B. S. (A)	Richland	Blythewood
	Brown, J. J. (T)	Cherokee	Gaffney
s	Burriss, W. F. (T)	Anderson	R. 8, Anderson
	Burris, A. (E)	Anderson	R. 8, Anderson
	Burton, C. C. (AE)	Spartanburg	R. 2, Inman
	Byrd, D. A. (A)	Aiken	Graniteville
	Capplemann, G. J. S. (A)	Charleston	200 Rutledge Ave.
	Cartwright, A. K. (E)	Marion	Marion
	Chambers, J. A. (E)	Union	Union
s	Cook, J. M. (T)	York,	Fort Mill
	Cook, W. C. (A)	Lancaster	Kershaw
	Copeland, E. W. (A)	Laurens	Laurens
	Davenport, O. F. (T)	Anderson	Belton
	Davis, T. W. (A)	Laurens	R. 3, Clinton
	Dean, F. F. (E)	Anderson	133 Prevost St.
	Doar, L. H. (A)	Georgetown	R. 1, Georgetown
	Dominick, H. B. (AE)	Richland	920 Maple St. Columbia
	Easterby, A. H. (A)	Laurens	Laurens
	Ellison, M. C. (Ch.E)	Pickens	Easley
	Evans, M. A. (CE)	Florence	R. 1, Pambliss
	Ezell, B. D. (A)	Spartanburg	R. 1, Cherokee
	Fadely, S. H. (F.B.) (A)	Point Pleasant	West Virginia
	Faris, T. M. (A)	York	R. 1, Fort Mill
	Fayssoux, F. S. (T)	Greenville	106 Pine St.
	Ferguson, J. L. (T)	Charleston	135 Ashley Ave.
	Fitzgerald, A. B. (CE)	Spartanburg	163 Pine St.
	Fletcher, E. G. (E)	Marlboro	R. 1, McColl
s	Floyd, A. R. (E)	Aiken	R. 2, Warrenville
	Fortenberry, R. O. (T)	Cherokee	Gaffney
	Fuller, R. C. (E)	Spartanburg	Pacolet Mill
	Garrison, C. C. (A)	York	R. 4, Fort Mill
	Gaston, J. P. (A)	Chester	Rodman

Name and Course	County	Residence
Glenn, H. Y. (CE)	Fairfield	Wallaceville
Goff, W. E. (A)	Saluda	R. 6, Leesvillle
Griffin, G. H. (F.B.) (A)	Berkeley	Jamestown
Griffin, J. K. (T)	Anderson	Belton
Griffin, R. L. (C)	Anderson	508 Richland Ave.
Griffin, W. F. (E)	Laurens	Cross Hill
Hagan, C. M. (E)	Abbeville	Due West
Hair, D. H. (AE)	Chester	Great Falls
Hall, E. H. (A)	Barnwell	Blackville
Hamilton, S. S. (CE)	Dillon	Dillon
Harvey, O. J. (A)	Berkeley	R. 2, Summerville
Haynsworth, J. R. (Ch.E)	Sumter	Sumter
Hendricks, L. A. (CE)	Pickens	R. 1, Easley
Hiller, R. E. (CE)	Lexington	Chapin
Hollingsworth, P. H. (T)	Union	Union
Howard, H. H. (E)	Aiken	Graniteville
Huggins, M. (A)	Florence	Timmonsville
Jeffries, T. L. (T)	Cherokee	R. 4, Gaffney
Jones, B. K. (AE)	Pickens	R. 1, Easley
Jones, J. F. (A)	Anderson	Starr
Kirkley, C. L. (E)	Charleston	McClellanville
Knight, H. D. (E)	Chesterfield	Angelus
Lang, G. (Ch.E)	Hampton	Garnett
Leach, M. R. (E)	Greenville	108 Means St.
Lenoir, T. W. (CE)	Kershaw	Camden
Lewis, J. G. (A)	Horry	Aynor
Livingston, D. F. (E)	Richland	916 Richland St. Columbia
Lyons, J. J. (T)	Anderson	1904 S. Main St.
McClimon, M. L. (E)	Spartanburg	R. 5, Greer
McCrary, A. L. (A)	Greenville	305 Bates St.
McGrew, C. J. (E)	Sumter	Sumter
Mace, J. C. (A)	Marion	Marion
Martin, L. I. (CE)	Oconee	R. 2, Westminister
Martin, R. S. (A)	Oconee	Clemson College
Mason, W. A. (A)	Hampton	Estill
Matthews, S. C. (A)	Florence	Scranton
s Miller, C. L. (T)	Greenville	Buncombe Road
Moore, W. H. (E)	Abbeville	Abbeville
Murphy, T .J. (A)	Anderson	R. 1, Piedmont
Oliver, M. B. (CE)	Williamsburg	Greelyville
Owens, J. B. (A)	Marion	Marion
Parker, E. G. (AE)		Shelby, N. C.
Patterson, J. T. (T)	Spartanburg	Woodruff
Pearman, S. N. (CE)	Anderson	Starr
Plowden, E. D. (A)	Clarendon	Jordan
Pruitt, B. A. (E)	Anderson	320 W. Franklin
Pugh, R. W. (E)	Newberry	Prosperity
Ray, W. S. (CE)	Barnwell	R. 1, Blackville
Reid, J. R. (A)	Chester	R. 2, Richburg
Reid, W. J. (A)	Chester	R. 2, Richburg
Rhem, C. F. (E)	Williamsburg	Rhems
Roberts, O. A. (E)		Walter, Okla
Rodgers, S. A. (A)	Greenwood	R. 1, Callison
s Ross, J. E. (A)	Darlington	R. 1, Society Hill
Sams, J. H. (E)	Richland	1401 Laurel St. Columbia
Sartor, C. C. (E)	Union	R. 3, Union

	Name and Course	**County**	**Residence**
	Sawyer, G. W. (A)	Aiken	R. 1, Aiken
s	Shands, R. G. (A)	Florence	Ebenezer
	Shannon, J. R. (E)	Chester	R. 1, Blackstock
	Sheppard, J. L. (E)	McCormick	R. 2, McCormick
	Shirley, L. R. (T)	Greenwood	R. 3, Greenwood
s	Shiver, J. C. (A)	Oconee	Clemson College
	Shoolbred, A. (CE)	Richland	1320 Senate St., Columbia
	Singley, H. S. (A)	Newberry	R. 6, Prosperity
	Sligh, W. D. (E)		Norfolk, Va.
	Smith, A. L. (T)	Marlboro	R. 1, Bennettsville
	Smith, T. W. (E)	Pickens	Pickens
	Smith, W. B. (E)	Newberry	Kinards
	Smith, W. R. (E)	Union	R. 2, Union
	Smyly, J. W. (E)	Colleton	R. 3, Ruffin
	Sojourner, J. H. (CE)	Bamberg	Denmark
	Spearman, W. W. (T)	Newberry	Newberry
	Speer, G. M. (E)	Anderson	318 Calhoun St.
s	Stevenson, T. C. (T)	Chester	R. 1, Richburg
	Stoudenmire, L. C. (A)	Calhoun	Lone Star
	Stribling, R. S. (T)	Greenwood	Ware Shoals
	Stuckey, C. C. (A)	Darlington	R. 2, McBee
	Talbert, J. B. (A) ;	McCormick,	R. 1, McCormick
	Thorne, T. F. (E)	Spartanburg	Landrum
s	Tolleson, L. C. (T)	Cherokee	Gaffney
	Turnipseed, B. R. (AE)	Greenwood	Greenwood
	Vaughan, T. L. (E)	Spartanburg	Cowpens
	Verner, J. V. (E)	Oconee	Richland
	Wade, W. M. (CE)	Chester	R. 2, Lowryville
	Walker, H. P. (T)	Pickens	Easley
	Wallace, T. P. (E)	Laurens	Bryson
	Warner M. R. (A)	Greenwood	R. 2, Greenwood
	Welch, W. F. (A)	Marlboro	Clio
	Wertz, J. B. (AE)	Pickens	Clemson College
	Wiggins, J. E. (CE)	Hampton	Garnett
	Wilson, H. F. (A)	Orangeburg	R. 1, Bowman
	Wilson, J. W. 2nd (A)		Villa Rica, Ga.
	Wofford, G. C. (A)	Laurens	Laurens
	Wood, T. C. (A)	312 A St., N. E.	Washington D. C.
	Woodward, T. E. P. (CE)	Aiken	R. 1, Aiken
	Wright, L. C. (AE)	Marlboro	R. 1, Clio
	Young, L. R. (E)	York	Rock Hill

SOPHOMORE CLASS

s Indicates scholarship student. County and city are the same if street only is given.

s	Allen, A. C. (E)	Dillon	Dillon
	Allen, C. S. (E)	Greenville	226 Williams St.
	Asbill, C. M. (E)	Richland	1523 Hampton St. Columbia
	Ashley, A. R. (A)	Anderson	R. 2, Honea Path
	Ayers, D. C. (E)	Orangeburg	7 Hampton St.
	Babb, Jack (E)	Anderson	Pelzer
s	Bagwell, J. C. (A)	Anderson	Honea Path
	Bailes, W. B. (E)	Lancaster	R. 2, Fort Mill

Name	County	Residence
Barrs, T. A. (F.B.) (A)	Bamberg	R. 2, Branchville
Batson, J. P. (E)	Greenville	230 David St
Bauer, J. W. (E)	Richland	2610 Blossom St., Columbia
Bell, R. F. (A)	Greenwood	R. 2, Callison
Bell, S. L. (E)	Chester	Chester
Blair, J. W. (E)	Fairfield	Blair
Blakeney, L. B. (E)	Lancaster	Lancaster
Blakeney, L. R. (E)	Chesterfield	Pageland
Blount, T. C. (E)	Charleston	331 President St,
Boggs, R. E. (Ch.E)	Spartanburg	267 Pine St.
Bonner, T. A. (E)	Spartanburg	Trough
Booker, L. R. (E)		205 Sycamore St. Charlotte N. C.
Buck, F. E. (E)	Sumter	221 W. Calhoun S.
Bunch, R. L. (E)	Charleston	6 1-2 George St.
Calvert, J. P. (E)	Union	Jonesville
Cannon, E. A. (E)	Richland	Blythewood
Carter, D. E. (E)	Laurens	Clinton
Cartee, E. F. (E)	Pickens	Liberty
Cary, F. L. (E)	Oconee	Seneca
s Causey, L. G. (A)		Tabor, N. C.
Chandler, J. W. (E)	Sumter	516 W. Liberty St.
Chappell, I. W. (E)	Fairfield	Jenkinsville
s Clark, D. C. (E)	Union	E. Main St.
s Clarke, T. H. (A)	Kershaw	Camden
Clement, B. L. (A)	Spartanburg	205 Park Ave.
Cobb, W. H. (A)	Richland	1912 Assembly St. Columbia
Colbert, F. H. (E)		907 D St. N. W., Ardmore, Okla.
Coleman, H. V. (E)	Saluda	R. 1, Silver Street
Coleman, J. M. (CE)	Newberry	Silver Street
Coleman, P. W. (E)		1106 Quintard Ave., Anniston, Ala.
Collins, D. M. (E) (F.B.)	Oconee	Clemson College
Corbin, J. F. (A) (F.B.)	Greenville	306 Hampton Ave.
Cothran, G. T. (E)	Greenwood	202 Merriman, St.
Covin, W. F. (C)	McCormick	Willington
Cox, G. W. (E)	Spartanburg	R. 1, Greer
Cox, S. M. (E)	Oconee	Seneca
Craven, W. H. (A)	Marion	Eulonia
Croskeys, H. G. (E)	Greenville	Piedmont
Dacus, J. A. (E)	Anderson	Williamston
Daniel, D. M. (A)	Williamsburg	Cooper
Darby, J. E. (E)	Chester	Lowryville
Darby, J. P. (E)	Richland	1320 Senate St. Columbia
Dicks, R. L. (E)		R. B. Lakeland, Fla.
s Douglass, W. J. (A)	Union	Jonesville
Edens, G. C. (A) (F.B.)	Pickens	R. 4, Pickens
Ellis, E. W.. (E)	Richland	1015 Bryan St., Columbia
s Evans, F. A. (A)	Marion	Marion
Ezell, P. B. (A) (F.B.)	Spartanburg	Crosss Anchor
Faires, C. D. (E)	York	R. 1, Rock Hill
s Flowers, H. B. (E)	Darlington	R. 2, Darlington
Ford, R. F. (A)	Chester	Richburg
Freeland, B. W. (A)		Crowley, La.
Freeman, W. C. (E) (F.B.)	Greenville	R. 6, Greenville
Friar, E. M. (E)	Sumter	441 W. Calhoun St.
Gibson, R. F. (E) (F.B.)	Orangeburg	Norway
Gillespie, B. B. (E)	Oconee	R. 4, Seneca
s Goodale, T. E. (T)	Kershaw	1213 Lyttleton St. Camden

	Name and Course	County	Residence
	Gordon, W. C. (E)	York	R. 1, Rock Hill
s	Goree, I. M. (T)	Newberry	619 Wright St.
	Graves, P. (E)	Abbeville	Abbeville
	Guess, J. P. (E)	Allendale	Appleton
	Haas, W. V. (E)	Union	40 Fant Ave
	Hall, R. E. (E)	Cherokee	500 S. Johnson St. Gaffney
	Hambright, W. A. (A)	Cherokee	R. 1, Kingstree
	Harden, J. C. (E)	Chester	R. 4, Chester
	Hargrove, F. W. (E)	Dillon	Dillon
	Harmon, S. E. (E)	Richland	2719 Main St. Columbia
s	Hart, T. J. (A)	Orangeburg	R. 2, Vance
	Hawkins, G. E. (A)	Florence	Timmonsville
s	Haynsworth, C. R. (E)	Sumter	29 E. Calhoun St.
	Henderson, H. J. (A)	Greenville	R. 4, Greenville
	Henry, S. W. (E)	Allendale,	Allendale
	Herbert, D. O. (E)	Orangeburg	Orangeburg
s	Herlong, E. S. (A)	Calhoun	R. 3, Box 1, St. Matthews
	Hodges, B. H. (E)	Anderson	Starr
	Holahan, R. F. (E)	Greenville	R. 1, Marietta
	Holohan, V. J. (E)	Greenville	R. 1, Marietta
	Hollis, P. T. (A)	Chester	R. 2, Richburg
	Holmes, A. G. (E)	Oconee	Clemson College
	Holmes, J. S. (A)	Laurens	R. 1, Mountville
	Huffman, W. C. (A)	Newberry	R. 1, Little Mountain
	Humphries, C. G. (E)	Union	Union
	Hutto, D. F. (E)	Bamberg	Denmark
	Jackson M. E. (E)	Greenwood	228 Pressley St.
	Jackson, S. L. (A)	Anderson	Starr
	Jacobi, L. W. (E)	Greenville	204 Prentiss Ave.
	Jeffords, A. U. (E)	Darlington	Lamar
	Jeffords, G. P. (A)	Florence	R. 4, Timmonsville
	Jennings, F. C. (E)	Fairfield	Winnsboro
	Johnson, C. S. (E)		Windsor Hotel, Jacksonville, Fla.
	Johnson, W. P. (E)	Spartanburg	R. 1, Inman
	Jones, E. L. (E)	Kershaw	Liberty Hill
s	Jones, G. L. (A)	Marion	R. 1, Mullins
	Jordon, W. E. (A)	Calhoun	St. Matthews
	Keel, J. H. (A)	Allendale	Allendale
	Kehew, C. L. (E)		South Harpswell, Maine
	Keller, W. A. (E)	Calhoun	R. 2, St. Matthews
	Kent, G. P. (E)		75 Berkeley St., Bloomfield, N. J.
s	Kibler, J. W. (A)	Newberry	Pomaria
	King, C. B. (A)	Horry	R. 1, Myrtle Beach
	Kirby, C. E. (E)	Union	Union
	Kirk, R. S. (A)	Orangeburg	R. 2, Eutawville
s	Kirton, M. B. (E)	Williamsburg	Cades
	Knight, T. M. (E)	Chesterfield	Cheraw
	Knotts, W. T. (E)	Orangeburg	R. 1, North
	Lambright, F. L. (E)	Spartanburg	Landrum
	Lander, A. M. (A)	Anderson	Box 113 Pelzer
	Lee, R. L. (E)	Spartanburg	Landrum
	Lewis, J. M. (A)	Darlington	R. 1, Darlington
	Lewis, W. M. (E)	Darlington	R. 1, Darlington
	Littlejohn, C. M. (E)	Anderson	Belton
	Long, C. A. (A)	Horry	R. 1, Conway
	Longley, J. M. (E)		405 Broad St., LaGrange, Ga.

Name	County	Residence
s Long, L. S. (A)	Newberry	R. 3, Prosperity
Lucius, T. L. (A)	Richland	Eastover
McCormac, E. A. (A)	Dillon	R. 1, Dillon
McCormac, J. H. (A)	Dillon	R. 1, Dillon
McCown, W. H. (E)	Anderson	R. 6, Anderson
McGee, J. A. (E)	Anderson	R. 2, Starr
McIntosh, C. H. (E)	Clarendon	R. 1, New Zion
McLees, F. C. (A)	Anderson	R. 3, Townville
s McLeod, N. A. (A)	Dillon	Bingham
s McLeod, T. E. (A)	Dillon	Bingham
McMillan, R. W. (E)	Marion	Centenary
s McPhail, M. (A)	Oconee	R. 1, Townsville
Mace, K. M. (A)	Marion	Centenary
Maner, J. K. (A)	Hampton	Garnett
Marler, J. A. (A)	Greenville	Fountain Inn
Matthews, D. T. (E)	Pickens	Pickens
Maxwell, R. E. (E)	Richland	1408 Gregg St., Columbia
Melton, L. H. (E)	Chester	Chester
Meredith, P. F. (E)	Pickens	Central
Miller, J. H. (E)	Newberry	R. 2, Little Mountain
Miller, J. R. (A)	York	R. 6, York
Moore, P. W. (E)	Florence	Florence
Morgan, B. A. (T)	Greenville	215 Broadus Ave.
s Morris, J. A. (E)	Oconee	Newry
Moseley, J. W. (E)	Orangeburg	15 Hampton St.
s Mullins, H. D. (E)	Cherokee	R. 4, Gaffney
Murr, B. L. (E)	Chester	Chester
Norton, J. J. (E)	Oconee	Walhalla
O'Cain, H. F. (E)	Orangeburg	Orangeburg
s Outen, D. L. (A)	Lancaster	R. 3, Kershaw
Patterson, S. N. (E)	Anderson	Williamston
s Phifer, G. E. (E)	Spartanburg	245 Marion Ave.
s Pinckney, A. G. (A)	Charleston	47 Ashley Ave
Poe, E. J. (E) (F.B.)		Crabtree, N. C.
s Pope, T. H. (T)	Greenville	802 Arlington Ave
Prause, O. B. (E)	Charleston	204 Spring St.
Price, G. E. (E)	Bamberg	Bamberg
Pruitt, R. S. (E)	Anderson	Anderson
Reid, D. A. (E)	Charleston	127 Bull St.
Rhodes, C. F. (E)	Darlington	R. 1, Darlington
Rhodes, N. C. (E)	Darlington	R. 1, Darlington
Roark, D. (E)	Pickens	Pickens
Roark, R. B. (E)	Pickens	Pickens
Robinson, A. C. (A)	Sumter	R. 1, Oswego
Robinson, C. A. (E)	Fairfield	Winnsboro
Roche, T. G. (T)	Abbeville	Abbeville
Roddey, J. D. (E)	York	Rock Hill
Rodgers, H. W. (A)	Greenwood	R. 1, Callison
Rowland, J. R. (E)	Pickens	Central
Rudloff, J. H. (E)	Berkeley	Pinopolis
Rush, J. F. (A) (F.B.)	Greenwood	R. 4, Greenwood
Sally, H. D. (E)	Aiken	Sally
Sanders, E. S. (A)	Beaufort	Pritchardville
s Sanders, K. B. (A)	Colleton	Walterboro
Sanftleben, D. A. (E)		Jamaica, B. W. I.
Seaborn, G. (E)	Oconee	Walhalla

	Name and Course	County	Residence
	Seago, J. A. (E)	Greenwood	215 Cambridge St.
	Sease, E. C. (CE)	Newberry	Prosperity
	Sease, R. E. (E)	Newberry	Prosperity
s	Shanklin, J. A. (A)	Greenville	R. 8, Greer
	Sharp, J. M. (E)	York	Leslie
	Shealy, N. P. (E)	Newberry	Prosperity
	Shockley, J. A. (E)	Oconee	West Union
	Silcox, D. H. (E)	Charleston	Mt. Pleasant
	Simpson, W. N. (A)	Chester	R. 2, Richburg
	Smith, B. M. (E)	Anderson	Starr
s	Smith, D. E. (E)	Newberry	Kinards
s	Smith, E. L. (E)	Anderson	1804 South Main St.
	Smith, F. V. (E)		904 Magnolia Ave. Charlotte, N. C.
s	Smith, J. E. (E)	Berkeley	R. 1, Ridgeville
s	Smith, M. M. (E)	Marlboro	Clio
	Smith, R. H. (A)	Colleton	R. 1., Smoaks
	Smith, S. T. (A)	Horry	R. 1, Conway
	Spencer, B. (E)	Oconee	R. 1, Madison
	Stello, L. T. (E)	Charleston	116 B. Spring St.
	Stewart, F. C. (E)	Anderson	Pelzer
	Stewart, E. C. (E)	Spartanburg	Woodruff
	Stokes, K. E. (A)	Darlington	R. 2, Darlington
	Stoney, P. D. (A)	Allendale	Allendale
	Stribling, D. W. (A)	Oconee	R. 4, Westminister
	Tabor, W. P. (E)	Calhoun	Fort Motte
	Talbert, E. H. (A)	Edgefield	Edgefield
s	Tate, H. S. (E)	Abbeville	Abbeville
	Tate, R. H. (E)	Anderson	703 W. Whitton St.
	Taylor T. J. (E)	Spartanburg	R. 4, Spartanburg
	Tennant, A. B. (E)	Fairfield	Winnsboro
s	Thrower, J. H. (E)	Chesterfield	Cheraw
	Tibbs, R. H. (E)	Chester	Great Fallls
s	Timmons, J. H. (A)	Clarendon	R. 3, Manning
	Todd, J. N. (A)	Oconee	R. 2, Walhalla
s	Traxler, H. C. (A)	Orangeburg	R. 3, Bowman
	Traxler, W. C. (A)	Orangeburg	R. 3., Bowman
	Trimier, L. G. (E)	Spartanburg	137 Oakwood Ave.
	Turbyfill, W. G. (E)	Spartanburg	342 N. Church St.
	Turner, G. E. (E)	Anderson	North Anderson
	Watkins, E. F. (E)	Spartanburg	115 Irvin Ave.
	Weatherson, J. C. (E)	Beaufort	Bluffton
	Welling, C. E. (E)	Charleston	714 King St
	West, W. (A)	Spartanburg	278 N. Church St.
	Whitton, J. E. (E)	Florence	Florence
	Wieters H. C. (E)	Charleston	119 Calhoun St.
	Williams, W. B. (E)	Greenville	233 Bates St.
s	Williamson, J. G. (A)	Horry	R. 2, Tabor, N. C.
	Wilson, G. C. (A)	Anderson	R. 6, Honea Path
	Wise, G. C. (E)	Newberry	Prosperity
	Woodside, H. R. (E)	Greenville	Duncan Mill, Greenville
	Wooten, W. H. (A)	Oconee	Fair Play
	Wright, J. D. (A)	Marlboro	R. 1, Clio
s	Youmans, M. (A)	Allendale	Fairfax
	Youngblood, J. M. (A)	York	Rock Hill
	Zeigler, H. J. (E))	Orangeburg	R. 6, Orangeburg
	Zeigler, R. L. (A)	Bamberg	Denmark

FRESHMAN CLASS

s Indicates scholarship student. County and city are the same if street only is given.

	Name and Course	County	Residence
	Acker, T. F. (A)	Anderson	408 E. River St.
s	Adams, L. C. (A)	McCormick	Meriwhether
	Aiken, C. C. (E)	Anderson	313 W. Church St.
	Albright, W. V. (E)	Laurens	127 Academy St.
s	Alexander, E. R. (A)	Lancaster	R. 2, Fort Mill
	Anderson, E. C. (A)	Florence	R. 2, Timmonsville
	Anderson, O. S. (E)	Florence	R. 2, Timmonsville
s	Armstrong, A. V. (A)	Laurens	R. 2, Owings
	Bailey, T. L. W. (A)	Laurens	Clinton
	Bankhead, W. W. (E)	Chester	Lowryville
	Barham, J. R. (A)	Marion	Marion
	Barr, C. M. (E)	Lexington	Leesville
	Bauer, E. (E)	Richland	2610 Blossom St. Columbia
	Berry, R. R. (E)	Union	Union
	Boseman, T. R. (E)	Darlington	R. 2, Darlington
	Bouknight, L. S. Jr. (A)	Saluda	R. 2, Batesburg
	Boyd, J. A. (E)	Florence	Florence
	Bowles, H. J. (E)	Greenwood	Greenwood
	Bradley, D. W. (E)	Union	Union
	Bradley, T. L. (E)	Richland	2825 Blossom St., Columbia
	Bradley, W. W. (E)	Clarendon	Manning
	Brennecke, R. C. (A) F. B.	Orangeburg	Norway
	Brown, H. A. (A)	Oconee	R. 3, Westminister
	Brown, W. F. (E)	Anderson	R. 2, Anderson
	Bryan, W. W. (E)	Oconee	Clemson College
	Bryant, W. D. (E)	Darlington	R. 1, Dovesville
	Bryce, G. W. (E)	Florence	583 W. Evans St.
	Buie, J. A. E. (E)	Orangeburg	Branchville
	Bulcken, J. G. (E)	Florence	303 S. Church St.
s	Burgess, J. A. (A)	Greenville	Greer
	Burley, F. A. (E)	Fairfield	Monticello
	Burnet, A. W. (E)	Kershaw	Camden
	Burroughs, C. H. (E)	Horry	Conway
	Burton, R. H. (E)	Aiken	R. 2, Warrenville
	Buyck, W. P. (A)	Calhoun	St. Matthews
	Byrd, H. L. (A)	Orangeburg	North
	Callahan, R. J. (A)	Pickens	R. 2, Liberty
	Carithers, A. G. (A)		Ft. Valley, Ga
	Carson, J. W. (E)	Spartanburg	283 S. Church St.
	Carson, W. O. (A)	Saluda	Saluda
	Caughman, J. B. (E)	Richland	1013 Sumter St., Columbia
	Causey, W. B. (E)	Hampton	Hampton
	Causley, J. E. (E)	Chester	Chester
	Chapman, W. E. (A)	Anderson	R. 2, Pendleton
	Clark, T. B. (A)	Lee	Lynchburg
	Cochran, G. B. (A)	Greenwood	R. 1, Donalds
s	Coleman, H. C. (A)	Richland	R. 2, Hopkins
	Corn, H. E. (E)	Anderson	701 W. End Avenue
	Corry, J. S. (A)	Marlboro	Bennettsville
	Cox, F. M. (E)	Anderson	Belton
	Cox, H. A. (E)	Calhoun	St. Matthews
s	Crain, M. C. (A)	Greenville	R. 1, Taylors
s	Creighton, J. T. (A)	Aiken	North Augusta
	Crook, O. L. (E)	Calhoun	Cameron
	Cudd, F. B. (A)	Spartanburg	Chesnee
	Cudd, J. E. (E)	Union	Jonesville

	Name and Course	**County**	**Residence**
s	Culler, F. N. (A)	Lexington	Swansea
	Curdts, E. C. (E)	Greenville	513 Townes St.
	Cureton, R. H. (E)	Greenville	1420 Pendleton St.

	Name and Course	**County**	**Residence**
	Darby, C. P. (E)	Charleston	Mt. Pleasant
	Darby, J. M. (A)	Anderson	Sandy Springs
	Davis, J. A. (E)	Sumter	515 W. Oakland Ave.
s	Davis, O. W. (A)	Marion	R. 2, Gresham
	Davis, T. W. (E)	Lee	R. 5, Bishopville
	Day, C. B. (E)	Edgefield	Trenton
	DeLoache, E. C. (E)	Kershaw	Camden
	DeLoach, L. D. (A)	Kershaw	Camden
	Dial, W. A. (A)	Laurens	Cross Hill
	Dillard, W. P. (A)	Greenville	R. 4, Greer
	Dorsett, R. R. (A)	York	York
	Dulin, P. M. (A)	York	Bowling Green
	Dunlap, W. L. (E)	Laurens	Laurens
	DuVernet, W. R. (E)	Greenville	R. 1, Greenville
	Dyches, H. M. (A)	Aiken	816 York St.
	Easterling, K. (E)	Marlboro	Bennettsville
	Edwards, R. M. (A)	Calhoun	R. 1, Elloree
	Elliott, W. R. (E)	Fairfield	Winnsboro
	Evans, J. K. (E)	Beaufort	Beaufort
	Fagan, H. C. (A)		Ft. Valley Ga.
s	Faile, N. F. (A)	Lancaster	Kershaw
s	Farmer, W. A. (A)	Anderson	649 North Avenue
	Felder, J. C. (E)	Sumter	2 Edwards St.
	Fewell, J. A. (E)	York	Rock Hill
	Finklea, G. I. (E)	Florence	Hyman
	Fleming, J. M. (A)	Laurens	Lanford
	Foster, R. M. (A)	Spartanburg	White Stone
	Franklow, M. L. (E)	Lexington	Leesville
	Freeman, M. F. (E)	Oconee	Westminister
	Fulmer, C. E. (E)	Orangeburg	Cope
	Gaffney, H. E. (E)	Cherokee	Gaffney
	Garrison, N. A. (E)	Anderson	Sandy Springs
	Garvin, B. W. (E)	Aiken	Seivern
	Garvin, C. W. (E)	Aiken	Seivern
	Gignilliat, G. W. (E)	Oconee	Seneca
	Gilmer, F. S. (E)	Anderson	Anderson
	Graham, F. A. (E)		Smithfield Pa
	Gramling, L. E. (E)	Orangeburg	R. 1, Orangeburg
	Green, F. H. (E)	Greenville	R. 4, Greer
	Guyton, J. C. T. (E)	Anderson	Williamston
	Haas, T. B. (E)	Cherokee	R. 8, Gaffney
	Hagood, J. F. (E)	Spartanburg	420 N. Church St.
	Hall, F. B. (E)	Anderson	Iva
	Hall, J. H. (E)	Cherokee	Gaffney
	Hambright, C. H. (A)		Kings Mountain N. C.
	Hane, J. K. (A)	Calhoun	Fort Motte
	Hane, W. W. (A)	Calhoun	St. Matthews
	Harrelson, O. M. (E)	Horry	Lanes
	Hawkins, C. E. (A)	Anderson	Starr
	Hawkins, L. B. (A)	Darlington	R. 1, Hartsville
	Heller, W. F. (E)	Anderson	Sandy Springs
	Hedrix, J. H. (A)	Greenville	R. 1, Greenville
s	Hendrix, S. H. (E)	Lexington	Lexington

Name and Course	County	Residence
s Henery, W. J. (A)	Union	R. 1, Sedalia
Hester, J. B. (A)	Pickens	R. 2, Easley
Hewer, J. C. (E)	Pickens	Calhoun
Heyward, G. C. (E)	Anderson	Pelzer
Hines, L. H. (E)	McCormick	Meriwether
Hinson, E. M. (E)	Kershaw	R. 1, Blaney
s Hinson, H. S. (A)	Lee	Lynchburg
Holmes, R. A. (E)	Laurens	Mountville
Hoover, G. B. (E)	Hampton	Hampton
Hope, R. H. (E)	York	R. 7, Rock Hill
Horn, M. D. (D)		Tallassee, Ala.
Howell, E. F. (E)	Orangeburg	69 Ellis Ave.
s Howle, J. P. (A)	Darlington	R. 1, Hartsville
Hoyt, L. W. (A)		Estherwood, La.
Hunt, F. M. (E)	Oconee	Walhalla
Jackson, R. A. (A)	Anderson	Starr
s Jackson, T. G. (E)	Florence	Florence
James, S. H. (E)		Waycross, Ga.
Jamison, T. R. (E)	Edgefield	Trenton
s Jeffcoat, U. R. B. (A)	Aiken	Wagner
Jeffers, W. (A)	Orangeburg	Holly Hill
Jeffords, C. H. (E)	Darlington	Darlington
Jeter, C. A. (E)	Union	Carlisle
s Johnson, R. A. (A)	Dillon	Dillon
Jones, P. C. (A)	Anderson	Starr
Jones, W. L. (E)	Greenville	Greer
Jordan, A. F. (E)	Union	Union
s Jordan, E. H. (A)	Darlington	R. 5, Timmonsville
Jordan, R. C. (A)	Chester	R. 1, Bascomville
Kearse, F. G. (E)	Hampton	Crocketville
s Kennedy, E. C. (A)	Sumter	Sumter
King, B. D. (E)	Lexington	R. 2, Swansea
King, J. E. (E)		Rocky Mount, N. C.
Kinard, J. A. (A)	Colleton	R. 3, Ruffin
Kirkland, C. R. (E)	Kershaw	Camden
Kirkland, R. R. (E)	Kershaw	Camden
Kirven, W. C. (E)	Sumter	R. 5, Sumter
s Kizer, H. F. (A)	Dorchester	St. George
s Klugh, J. B. (A)	Abbeville	Abbeville
Klugh, W. W. (E)	Pickens	Clemson College
Knight, E. J. (A)	Chesterfield	R. 1, Cheraw
LaRoche, J. D. (E)	Charleston	Edisto Island
s Law, J. M. (A)	Florence	Scranton
Lawton, B. M. (E)	Hampton	Lena
Lee, S. A. (E)	Orangeburg	Orangeburg
LeGette, J. S. (A)	Dillon	Latta
Leiztsey, F. B. (E)	Richland	906 Columbia Avenue Columbia
s Lemmon, J. M. (A)	Lee	Lynchburg
Linton, W. T. (E)		Greensboro, N. C.
Long, E. M. (E)	York	Rock Hill
s McAllister, L. C. (A)	Anderson	Pendleton
McCarley, C. R. (E)	Oconee	R. 3, Seneca
McClellan, G. W. (A)	Anderson	R. 4, Anderson
McCormac, E. L. (E)	Dillon	R. 1, Dillon
s McCracken, H. E. (A)	Richland	R. 1, Hopkins
McCraw, F. Z. (A)	Cherokee	Gaffney
McCraw, L. G. (A)	Cherokee	Gaffney

Name and Course	County	Residence
McGee, E. T. (A)	Anderson	Starr
McGee, C. A. (E)	Anderson	202 Maxwell Avenue
MuHugh, R. S. (A)	Pickens	Clemson College
McKeown, S. M. (E)	Chester	Cornwell
s McKerley, J. B. (A)	Barnwell	R. 2, Elko
Macomson, E. D. (A)	Spartanburg	Spartanburg
Marshall, J. C. (E)	Anderson	430 Marshall Avenue
Martin, B. V. (E)	Oconee	Clemson College
Matthews, J. R. (E)	Spartanburg	Paromlaw St.
Mayfield, J. T. (E)	Bamberg	Denmark
Mazyck, J. F. (E)	Charleston	160 Calhoun St
Moran, W. G. (E)		R. 1, Waycross, Ga.
Nance, R. D. (A)	Laurens	Cross Hill
Napier, C. D. (A)	Marlboro	Blenheim
O'Bryan, E. C. (E)	Williamsburg	Heineman
s Padgett, A. B. (A)	Colleton	Smoaks
Palmer, E. D. (E)	Pickens	Central
s Parker, A. W. (A)	Sumter	Dalzell
Paulling, J. R. (A)	Calhoun	St. Matthews
Pepper, W. C. (E)	Anderson	1003 W. Market
Phipps, F. V. (E)	Richland	Epsworth Orphanage Columbia
Plexico, J. F. (A)	York	R. 4, York
Porter, L. A. (E)	Orangeburg	Springfield
s Powell, G. H. (A)	Chesterfield	Cheraw
s Price, L. C. (E)	Bamberg	Bamberg
Pruitt, A. (E)	Anderson	320 W. Franklin
Pruitt, J. M. (E)	Anderson	R. 1, Anderson
Quinn, J. P. (E)	Cherokee	R. 1, Gaffney
Reid, T. B. (E)	Chester	Richburg
Rhame, D. O. (E)	Laurens	Clinton
Rhodes, S. B. (E)	Greenwood	Gaines
Roche, A. O. (E)	Abbeville	Abbeville
Rogers, C. H. (A)	Marion	R. 1, Mullins
Rogers, J. B. (A)	Marlboro	Blenheim
Roper, C. H. (A)	Laurens	Laurens
Roy, W. R. (E)	Richland	2205 Gadsden St., Columbia
Rutland, H. M. (E)	Lexington	Batesburg
Rutland, J. O. (E)	Orangeburg	Neeses
Salley, E. M. (E)		Saluda, N. C.
Salley, L. J. (E)	Aiken	Salley
Sanders, D. M. (A)	Sumter	Hagood
Sanders, J. H. (E)	Chester	Chester
Sanders, J. R. (E)	Chester	Chester
Sanders, V. C. (E)	Newberry	Newberry
Sawyer, W. L. (A)	Edgefield	Johnston
s Shands, W. A. (A)	Florence	Ebenezer
Simkins, L. H. (A)		R. 3, Augusta, Ga.
Smith, A. Z. (A)	Orangeburg	Bowman
Smith, C. H. (E)	Richland	R. 5, Columbia
Smith, E. D. (E)	Florence	Florence
Smith, E. T. (E)	Anderson	318 White St.
s Smith, G. A. (A)	Anderson	1204 N. Main
Smith, J. R. (E)	Greenville	506 Perry Ave.
Smith, O. N. (E)	Anderson	R. 2, Anderson
Smith, R. E. (E)	Cherokee	Blacksburg
s Smyley, M. M. (E)	Colleton	R. 3, Ruffin
Smyth, J. A. (A)		R. 1, Flat Rock, N. C.

Name and Course	County	Residence
Sonner, Q. C. (E)		Saluda, N. C.
Steele, W. P. (E)	Anderson	401 Manning St.
Steer, R. D. (A)	Laurens	Clinton
Stevenson, N. W. (E)	Anderson	1128 S. Main
Stevenson, W. S. (E)	Lancaster	Lancaster
Strickland, P. (A)	Anderson	Belton
Stringfellow, W. K. (E)	Charleston	145 Rutledge Ave.
Sudlow, W. H. (E)	Aiken	Aiken
Sullivan, V. D. (E)	Anderson	Anderson
Swords, P. E. (A)	Anderson	R. 1, Central
Taylor, W. H. (E)	Laurens	Laurens
Thackston, A. J. (E)	Orangeburg	Orangeburg
Thomas, J. H. (A)	Colleton	R. 3, Ruffin
s Thomas, H. L. (A)	Sumter	Mayesville
Thompson, J. M. (E)	Oconee	Westminister
Thornton, G. (E)	Greenville	U. S. Vet. Hospital
Tinsley, H. K. (A)	Greenwood	Hodges
s Tison, P. H. (A)	Allendale	Allendale
Todd, J. A. (E)	Anderson	R. 2, Starr
Townsend, B. D. (E)	Marlboro	Bennettsville
Townsend, T. S. (A)	Charleston	R. 1, Martins Point
Tozier, L. R. (E)	Sumter	R. 6, Sumter
s Trent, R. L. (A)	Spartanburg	Clifton
Tripp, W. W. (A)	Anderson	R. 4, Easley
Turner, J. B. (A)	Fairfield	R. 3, Winnsboro
Vand de Erve, J. M. (E)	Dorchester	Summerville
Verdery, C. B. (E)	Greenville	307 E. Park Ave.
Vice, E. E. (E)	Union	Union
Wagnon, L. L. (E)	Union	Union
s Walker, J. E. (E)	Barnwell	Blackville
s Watson, J. R. (A)	Saluda	Batesburg
Watson, S. J. (A)	Edgefield	Johnston
Watson, T. C. (E)	Lexington	Batesburg
Weeks, T. H. (E)	Orangeburg	Elloree
Welborn, H. W. (A)	Anderson	R. 2, Pendleton
s Wells, S. F. (A)	Sumter	R. 5, Sumter
Werner, W. J. (E)	Pickens	Central
Westbury, J. E. (E)	Georgetown	Georgetown
Whetsell, J. A. (A)	Orangeburg	R. 3, Parler
Whetsell, M. H. (A)	Orangeburg	R. 3, Bowman
Whilden, C. N. (E)	Sumter	117 Church St.
Whitaker, M. D. (E)	Orangeburg	Orangeburg
s White, W. A. (A)	Chester	Chester
Whitlock, I. M. (E)	Florence	Lake City
s Wilbanks, B. H.	Oconee	Clemson College
Wilkes, W. M. (A)	Marlboro	Clio
Wilkins, B. E. (A)	Spartanburg	Mayo
Williams, B. L. (A)	Greenwood	Gaines
Williams, J. D. (A)	Spartanburg	Cherokee
Williamson, J. W. (A)	Dillon	Hamer
Willis, W. H. (E)	Colleton	Cottageville
s Wilson, C. J. (A)	Clarendon	Manning
s Wilson, F. E. (A)	Jasper	Ridgeland
Wood, A. K. (A)	Laurens	R. 2, Ware Shoals
Wray, J. Q. (E)	York	York
Wright, J. B. (A)	Fairfield	Shelton
Wyman, H. V. (E)	Aiken	Aiken
Zagora, O. F. (E)		1305 Mint St. Charlotte, N. C.

SPECIAL AND IRREGULAR STUDENTS

s Indicates scholarship student. County and city are the same if street only is given.

Name and Course	County	Residence
Aldrey, J. L. (C. E.)		Caraco, Venezuela, S. A.
Cate, C. J. (A)		North Wilkesboro, N. C.
Cathcart, A. B. (A)	Fairfield	Winnsboro
Chappell, E. D. (A)	Fairfield	Jenkinsville
Cobb, C. N. (Gen. Sci.)	Pickens	Easley
Culler, C. W. (A)	Orangeburg	Orangeburg
Dotterer, E. G. (C. E.)	Charleston	123 Ashley Ave.
Edwards, A. W. (A)	Marion	Mullins
Fletcher, H. W. (C. E.)	Marlboro	McColl
Garrett, C. C. (A)	Laurens	Laurens
Grice, G. D. (C. E.)	Charleston	81 Ashley Ave.
Hagan, C. M. (E. E.)	Abbeville	Due West
Harding, T. L. (A)		Yadkinsville, N. C.
Hargrove, J. C. (C. E.)	Greenville	Box 1000, Greenville
Hayes, B. M. (T) F. B.	Anderson	Orr Station
Hobson, P. H. (A) F. B.	Anderson	Sandy Springs
Julian, C. T. (C) F. B.	Greenwood	Greenwood
Killian, J. M. (E. E.)	Richland	2300 Richland St. Columbia
Klenke, J. (E. E.)	Charleston	45 Columbus St.
Lewis, J. G. 2nd. (Gen. Sci.)	Anderson	Williamston
Lightsey, L. M. (A)	Hampton	Brunson
Ligon, L. L. (A) F. B.	Anderson	220 W. Whitner St.
Loadholt, N. B. (A)	Allendale	Fairfax
Logan, F. R. (T)	York	York
Martin, M. V. (T)		Paris France
Muthiah, A. D. (T)		Koilpati, India
Patrick, B. C. (A)	Greenville	San Souci
Pickens, R. W. (E. E.) F. B.	Pickens	Easley
Porter, H. S. (A)	Kershaw	Camden
Ryan, M. S. (C. E.)	Sumter	Wedgefield
Sams, M. W. (T)	Spartanburg	338 Spring St.
Stevens, J. T. (A)	Charleston	Yonges Island
Strother, F. V. (E. E.)	Oconee	Walhalla
Tsukiyamia, T. (T)		Asagoin, Japan
Watson, A. H.(A)	Saluda	Ridge Spring
Wigfall, C. Y. (A)	York	Rock Hill
Woodward, W. (T)	Aiken	Aiken

TWO-YEAR TEXTILE COURSE

Dennis, A. J.		Macon, Ga.
Floyd, T. H.		LaGrange, Ga.
Hallman, A. L.	Union	Lockhart
Harris, A. A.		Blue Mountain, Ala.
Huffstetler, A. D.		R. 4, Kings Mountain, N. C.
Johnson, E. M.		West Point Ga.
Miller, C. L. 2nd	Greenville	Greenville
Prevost, F. H.	Anderson	1420 Tribble St.
Reames, T. J.	Abbeville	Abbeville
Smith, B. P.	Lexington	Leesville
Strickland, P. E.	Anderson	Belton
Thomas, D. L.	Pickens	Liberty

TWO-YEAR AGRICULTURAL COURSE

Name and Course	County	Residence
Anderson, W. L.	Anderson	Antreville
Bateman, E. D.	Lee	R. F. D. 1., St. Charles
Beam, F. A.	Greenville	Pelzer
Brennecks, T. H.	Orangeburg	Norway
Brown, C. A.	Oconee	R. 1, West Union
Chamblee, J. C.	Anderson	Anderson
Chapman, A. H.	Greenville	R. 1, Princeton
Crosswell, H.	Lee	R. 5, Bishopville
Dalrymple, C. D.	Anderson	R. 1, Pendleton
Gerrard, F.	Anderson	R. 4, Anderson
Hanks, S. H.	Anderson	R. 4, Iva.
Hoyle, C.	Cherokee	Blacksburg
Keasler, G. S.	Anderson	R. 2, Pendleton
Newman, C. C.	Oconee	Clemson College
Phifer, M. A.	Spartanburg	245 Moman Avenue
Rice, J. T.	Greenville	R. 4, Greenville
Simpson, M. B.	Chester	R. 2, Edgemoor
Wooten, R. B.	Chester	R. 1, Lewis Turnout

ONE-YEAR AGRICULTURAL COURSE

s	Blackmon, C. P.	Charleston	McClellanville
s	Black, J. M.	Newberry	R. 5, Prosperity
	Bost, W. F.		Morgantown, N. C.
s	Bramlett, J. W.	Chester	R. 1, Leeds
s	Carver, J. L.	Spartanburg	Fairforest
	Curlee, J. R.	Fairfield	Winnsboro
s	Culler, J. H.	Orangeburg	Wolfton
s	Culler, R. L.	Orangeburg	Wolfton
s	Ellis, L. D.	Allendale	R. 1, Martins
	Hall, J. W.	Chester	Chester
s	Hayes, T. W.	Dillon	R. 2, Dillon
s	Hiers, F. N.	Colleton	Ashton
s	Lee, R. H.	Marlboro	Clio
s	Shuler, J. R.	Orangeburg	R. 1, Orangeburg
s	Smith, B. R.	York	York
s	Smith, H. F.	Marlboro	Clio
s	Williams, M. S.	Richland	R. 3, Columbia
	Williamson, J. H.	Greenwood	Dyson

PRE-MEDICAL COURSE

Brunson, F. A.	Sumter	436 N. Main St.
Cannon, N. S.		Hendersonville, N. C.
Garner, F. H.	Union	Union
Goode, C. W.	Pickens	Clemson College
Haymaker, W. E.	Charleston	258 Congress St.
Heller, J. R.	Oconee	Seneca
Hines, E. A.	Oconee	Seneca
Linton, S. R.		Greensboro, Ga.
Mace, A. P.	Marion	Mullins
Norris, J. A.	Greenville	Piedmont
Pearson, A. S.	Spartanburg	R. 1, Woodruff
Ragin, J. J.	York	R. 4, Rock Hill

Name and Course	County	Residence
Register, F. B.	Williamsburg	Greeleyville
Shelamer, A. M.	Richland	1425 Hampton St. Columbia
Webb, H. B.	Richland	2725 First St., Columbia
Wilson, H. L.	Clarendon	Manning

SPECIAL STUDENTS IN TRAINING UNDER THE VOCATIONAL REHABILITATION ACT

These students are disabled ex-service men sent to the college by the U. S. Veterans' Bureau

Abercrombie, C. L. (T)	Oconee	Seneca
Adams, J. O. (A)	Greenwood	Greenwood
Alexander, C. F. (T)	Laurens	Clinton
Allen, S. A. (A)	York	Rock Hill
Allgood, F. G. (A)	Pickens	Pickens
Anders, W. B. (T)	Pickens	Liberty
Ash, M. W. (A)	York	Bullocks Creek
Barnette, E. S. (A)	Spartanburg	Spartanburg
Bennett, C. C. (A)	York	R. 3, Fort Mill
Bolick, C. F. (T)	Greenville	Judson Mill
Boone, L. W. (A)	Kershaw	Camden
Boykin, J. S. (A)	Kershaw	Camden
Bowers, K. B. (A)	Hampton	Estill
Breeden, G. G. (A)	Spartanburg	Chesnee
Brewer, J. W. (T)	Greenville	Greenville
Brock, R. F. (A)	Anderson	R. 3, Iva
Broome, M. B. (A)	Oconee	Clemson College
Brown, L. W. (E)	Oconee	Seneca
Bryant, J. (T)	Anderson	Anderson
Bryant, T. L. (A)	Pickens	Liberty
Burley, C. G. (A)	Pickens	Central
Burnett, P. (A)	Anderson	Anderson
Butler, G. W. (A)	Dillon	Dillon
Cash, A. C. (A)	Spartanburg	Cowpens
Cathey, H. L. (T)	Anderson	Anderson
Chassereau, H. (A)	Oconee	Clemson College
Clay, W. D. (A)	Pickens	Calhoun
Cooper, L. E. (T)	Anderson	Piedmont
Cothran, E. F. (A)	Pickens	Central
Covington, E. A. (A)	Williamsburg	Salters Depot
Crenshaw, L. A. (A)	Pickens	Dacusville
Crocker, A. C. (E)	Oconee	Clemson College
Crout, P. L. (A)	Lexington	R. 1, Gilbert
Dawkins, A. (A)	Marion	Mullins
Dawsey, J. W. (A)	Horry	Aynor
Dorn, E. (A)	Edgefield	Pleasant Lane
Droze, I. (A)	Dorchester	Summerville
Edwards, E. (A)	Darlington	Darlington
Ellis, S. D. (A)	Lancaster	Lancaster
Fallow, E. L. (A)	Lexington	Batesburg
Fields, W. T. (A)	Anderson	Anderson
Foster, T. D. (A)	Spartanburg	Inman
Garrett, G. V. (T)	Greenwood	Greenwood
Gaston, R. L. (A)	Chester	Lowryville
Geddings, G. L. (A)	Clarendon	Paxville
Goude, G. O. (A)	Georgetown	Plantersville

Name and Course	County	Residence
Gregory, C. (A)	Oconee	Clemson College
Griffith, W. V. (T)	Spartanburg	Spartanburg
Grogan, J. R. (E)	Oconee	Westminister
Hall, H. (A)	Lexington	Steedman
Harrelson, J. E. (A)	Horry	Allsbrook
Hawkins, B. J. B. (A)	Anderson	Anderson
Hayes, W. H. (T)	Anderson	Belton
Henderson, B. K. (A)	Oconee	Clemson College
Hendrix, E. J. (T)	Pickens	Calhoun
Hendrix, R. (E)	Pickens	Pickens
Hester, W. R. (A)	Oconee	Clemson College
Henson, W. F. (A)	Pickens	Calhoun
Holt, W. E. (A)	Horry	Loris
Hood, W. C. (A)	York	Rock Hill
Hooker, C. B. (T)	Orangeburg	North
Hopkins, W. S. (A)	Anderson	Belton
Houston, L. A. (A)	Oconee	Westminister
Hughes, F. J. (A)	Spartanburg	Enoree
Hutchinson, W. A. (T)	Anderson	Anderson
Hyman, J. M. (A)	Oconee	Clemson College
Jenkins, J. E. (A)		Parmele, N. C.
Jones, W. J. (A)		Atlanta, Ga.
Kay, C. D.	Anderson	Anderson
Keck, M. (A)	Oconee	Clemson College
Kelley, B. D. (T)	Darlington	Darlington
Kelly, C. M. (A)	Lexington	New Brookland
Kelly, J. F. (T)	Anderson	Pendleton
Kirby, C. T. (A)	Spartanburg	Spartanburg
Kirkley, L. (T)	Chesterfield	Jefferson
Knox, A. R. (A)	Oconee	Westminister
Lawrence, S. (A)	Pickens	Central
Lesley, T. A. (A)	Pickens	Liberty
Loveless, H. L. (T)	York	Rock Hill
Lovell, C. B. (A)	Pickens	Liberty
McCall, L. P. (A)	Oconee	Clemson College
McCoy, W. B. (A)	Oconee	Clemson College
McNeil, J. D. (A)	Abbeville	Calhoun Fall
McTeer, N. V. (A)	Colleton	Salkehatchie
Madden, G. (A)	Pickens	Calhoun
Maddox ,A. B. (A)	McCormick	McCormick
Mayson, B. M. (A)	Edgefield	Callison
Mixon, G. F. (A)	Allendale	Fairfax
Moore, E. L. (A)	Pickens	Calhoun
Morgan, W. A. (A)	Pickens	Central
Mull, E. (A)		Asheville, N. C.
Newbanks, J. H. (A)	Aiken	Aiken
Nix, J. H. (A)	Anderson	Pendleton
Nodine, H. L. (A)	Anderson	Pendleton
Oates, W. R. (A)	Pickens	Central
Oswold, C. L. (A)	Greenwood	Greenwood
Patterson, E. T. (A)	Pickens	Pickens
Powell, J. T. (A)	Pickens	Pickens
Pratt, B. B. (A)	Pickens	Calhoun
Prince, N. A. (A)	Pickens	Calhoun
Rains, B. (A)	Cherokee	Blacksburg
Rice, R. F. (T)	Calhoun	Central
Richardson, G. B. (A)	Marion	Marion

Name and Course	County	Residence
Riggins, B. E. (A)	Pickens	Liberty
Rogers, L. W. (T)	Anderson	Anderson
Royall, J. H. (A)	Anderson	Pendleton
Seigle, A. H. (A)	Pickens	Calhoun
Shehan, D. B. (A)	Lancaster	Lancaster
Shumpert, R. S. (A)	Oconee	Clemson College
Sides, A. H. (A)	Pickens	Central
Sligh, C. O. (E)	Pickens	Clemson College
Stansell, L. E. (A)	Pickens	Calhoun
Stanton, H. M. (A)	Anderson	Belton
Stevens, G. C. (T)	Pickens	Calhoun
Stroud, W. P. (A)	Anderson	Sandy Springs
Sumner, J. D. (A)	Pickens	Calhoun
Taylor, R. N. (A)	Newberry	Prosperity
Whitener, W. J. (T)	Pickens	Calhoun
Whitmire, F. L. (A)	Oconee	West Union

1922 SUMMER SCHOOL TEACHERS COURSES

Abbott, Lena	Oconee	R. 1, Walhalla
Ables, Beulah	Oconee	Westminister
Acker, Mary	Anderson	1039 S. Main St.
Alexander, Alma	Oconee	R. 2, Walhalla
Alexander, Florella	Spartanburg	Fairforest
Alexander, Gay	Oconee	R. 2, Walhalla
Altman, D. M.	Orangeburg	R. 6, Orangeburg
Atkinson, Mrs. J. H.		Gulfport, Miss
Ayers, T. L.	Dillon	Dillon
Babb, Claribel	Greenville	Fountain Inn
Bagwell, Ruth	Anderson	R. 2, Williamston
Baker, O. E.	Marion	Nichols
Ballenger, Lalla M.	Oconee	R. 1, Seneca
Beatty, Ruby M.	Oconee	Walhalla, Star Rt.
Bell, Julia	Abbeville	R. 1, Lowndesville
Bell, O. R.	Lancaster	Lancaster
Bethea, J. O.	Dillon	Latta
Bischoff, Lillian M.	Oconee	Walhalla
Black, Dora P.	McCormick	Mt. Carmel
Blackmon, Mrs. Beatrice	Anderson	R. 1, Townville
Blakely, Kate	Greenville	Simpsonville
Blakely, L. J.	Laurens	Gray Court
Blakely, R. E.	Laurens	Ora
Bodie, E. W.	Saluda	Ward
Boggs, Mrs. Adger	Pickens	R. 4, Liberty
Boggs, Annie	Pickens	R. 4, Liberty
Boggs, Ellie	Pickens	Liberty
Boggs, Frances	Pickens	Liberty
Boggs, Mrs. Mary A.	Pickens	Liberty
Bolding, Beulah B.	Pickens	R. 5, Pickens
Bolt, Miss Irene	Oconee	Westminister
Bolt, Macie	Anderson	R. 4, Anderson
Bouknight, L. M.	Pickens	Easley
Bowen, Mrs. Mary H.	Pickens	Liberty
Boyd, Myrtle B.	Anderson	840 Bleckley St.
Brown, Anna B.	Anderson	Anderson
Brown, Lillie H.	Anderson	229-E Franklin

Name and Course	County	Residence
Brown, Lola	Oconee	R. 3, Westminister
Bryant, Flora S.	Anderson	R. 4, Anderson
Buchanan, Lillie M.	Oconee	Seneca
Cannon, Ruth	Pickens	Easley
Carmichael, D. C.	Marion	Mullins
Carter, R. V.	Anderson	R. 6, Anderson
Cason, Mrs. Eliza G.	Anderson	915 Whitner St.
Chastain, J. A.	Greenville	Taylors
Clarady, W. C.	Horry	Wampee
Clemons, S. P.	Williamsburg	Greeleyville
Clemons, S. P. Mrs.	Williamsburg	Greeleyville
Cleveland, J. B.	Oconee	R. 4, Westminister
Clinkscales, Josie	McCormick	Willington
Cochran, Nelle Z.	Anderson	Anderson
Coleman, Elva	Saluda	Saluda
Cox, G.	Oconee	Walhalla
Cox, Sue E.	Oconee	Seneca
Cox, S. M.	Oconee	Seneca
Craig, J. F.	Lancaster	R. 1, Lancaster
Crain, M.	Greenville	Taylors
Crane Annie M.	Pickens	Liberty
Crowther, Tallulah	Anderson	Bx 288 Anderson
Dalton, Mrs. A. M.	Pickens	R. 4, Central
Davis, Ethel	Oconee	R. 2, Walhalla
Davis, L. L.	Marlboro	R. 1. Blenheim,
Davis, Sarah L.	Oconee	R. 2, Seneca
Dillard, MaryK.	Pickens	Six Mile
Dorr, Ethel	Pickens	R. 4, Liberty
Doyle, C. C.	Oconee	R. 1, Seneca
Drake, Ruth E.	Anderson	R. 1, Belton
Duckett, Olivia	Anderson	272 Greenville St.
DuRant, Alef	Colleton	Cottageville
Durham, Mrs. A. G.	Pickens	Norris
Earle, H. N.	Oconee	Walhalla
Earle, J. R.	Oconee	Walhalla
Edwards, D. L.	Marion	Mullins
Edwards, Velmer J.	Oconee	R. 2, Walhalla
Eleazer, L. H.	Lexington	R. 3, Chapin
Elrod, Ruby McC	Anderson	Bleckly St.
England, Marp, P.	Oconee	Westminister
Fant, T. P. Mrs	Anderson	R. 8, Anderson
Forrester, Lillian	Greenville	R. 2, Greer
Funderburk, L. B.	Chesterfield	Pageland,
Gailey, Annie E.	Anderson	1135 S. Main St.
Gambrell, S. C.	Laurens	Owings
Gambrell, Winnie	Oconee	Richland
Gardner, I. B.	Kershaw	R. 5, Kershaw
Garrett, Flora B.	Pickens	Norris
Garris, J. M.	Richland	Lykesland
Gary, E. E.	Greenville	Fountain Inn
Gilmore, J. D.	Orangeburg	Holly Hill
Glenn, Mrs, J. R.	Lexington	R. 4, Leesville
Grant, Lillian	Oconee	Salem
Gunthrope, Nell	Oconee	West Union
Hamer, E. B.	Marion	Marion
Harmon, P. K.	Newberry	Prosperity
Harris, Maggie	Anderson	Belton

Name and Course	County	Residence
Harrison, Carrie D.	Oconee	Walhalla
Hawkins, Mae E.	Greenville	R. 3, Greer
Hawkins, W. H.	Oconee	Seneca
Hayden, Viola E.	Orangeburg	Orangeburg
Haynes, Mrs. Helen G.	Saluda	Saluda
Hicks, Ernest	Anderson	R. 1, Pendleton
Hickson, Ruby	Oconee	R. 4, Westminister
Hillshouse, Mrs. Ruby M.	Anderson	R. 6, Anderson
Holliday, J. W.	Pickens	R. 2, Pickens
Hubbard, Mrs. W. G.	Oconee	Seneca
Huggins, C. B.	Cherokee	Gaffney
Hutchins, Zola	Pickens	Liberty
Jenkins, Alva C.	Oconee	Westminister
Johnson, Mrs. A. L.	Spartanburg	Whitney
Johnston, Maggie F.	Pickens	R. 1, Central
Jones, Vera E.	Oconee	Westminister
Kay, Helene C.	Oconee	Westminister
Keller, Mary S.	Abbeville	R. 2, Abbeville
Kelley, Ressie L.	Pickens	R. 3, Central
Kelly, Berta D.	Pickens	R. 3, Central
Kelly, Fan. Annie	Oconee	R. 1, Seneca
Kirkpatrick, Marcus K.	York	R. 2, Sharon
Kolb, R. F.	Williamsburg	Kingstree
Lake, R. C.	Kershaw	Kershaw
Lake, W. E.	Greenwood	Ninety Six
Langford, G. S.	Richland	Blythewood
Lawrence, J. H.	Pickens	R. 1, Calhoun
Lee, Minnie	Oconee	Westminister
Leland, A. M.	Charleston	McClellanville
Lemmons, Norma E.	Oconee	Westminister
Leslie, F. H.	Abbeville	Abbeville
Lever, F. M.	Lexington	Chapin
Lewis, E. A.	Pickens	Liberty
Lipscomb, A. E.	Oconee	R. 2, Walhalla
Looker, Eula Mae	Pickens	Easley
Lumpkin, Edith	Oconee	Seneca
Lyles, W. C.	Oconee	ountain Rest
Maddox, Lou Ellen	Anderson	142 Welch Ave.
Mahoney, W. M.	Oconee	R. 2, Easley
Martin, Jessie	Pickens	R. 5, Pickens
Martin Julia I.	Anderson	1104 Ligon St.
Massey, W. E.	York	Rock Hill
Massey, Mrs. W. E.	York	Rock Hill
Matheson, Laura	Oconee	Longcreek
Maxwell, Mary E.	Anderson	124 W. River St.
Mays, Ellen Poe	Pickens	Easley
McAlister, Inez	Oconee	R. 2, Seneca
McCormac, D. L.	Marion	Mullins
McCormac, Mary G.	Marion	Mullins
McDaniel, V. V.	Anderson	R. 2, Belton
Donald, Margie J.	Oconee	R. 4, Liberty
Mellette, R. R.	Orangeburg	Norway
Miley, J.	Hampton	Brunson
Miley, W. S.	Hampton	Brunson
Mills, C. S.	Aiken	Wagener
Minus, P. M.	Dorchester	St. George
Moore, Gladys T.	Anderson	R. 1, Pendleton

Name and Course	County	Residence
Moore L.	Anderson	149 Ligon St.
Moore, Roy	Spartanburg	Duncan
Morgan, Fannie D.	Oconee	Seneca
Moseley, Mrs. T. N.	Anderson	315 N. Fant
Mullinax, Rita L.	Pickens	R. 3, Central
Murphy, Sarah	Anderson	McDuffie
Murray, Annie M.	Anderson	454 Tribble St.
Nance, Ella L.	Abbeville	R. 2, Lowndesvile
Nesmith, Mary C.	Oconee	R. 3, Walhalla
Newton, Ethel Mae	Pickens	Central
Norris, Jessie	Greenville	Piedmont
O'Dell, Frances	Pickens	R. 3, Liberty
Orr, Mrs. J. C.	Pickens	Liberty
Oxner, Mrs. A. P.	Laurens	Laurens
Palmer, Ila M.	Anderson	R. 3, Pendleton
Patterson, Mae	Greenwood	R. 3, Hodges
Pearson, Jessie B.	Spartanburg	R. 1, Woodruff
Pearson, O.	Spartanburg	R. 1, Woodruff
Peden, Lila M.	Greenville	R. 1, Fountain Inn
Pennell, Elvira	Anderson	R. 1, Belton
Phillips, Ida E.	Pickens	R. 3, Easley
Phillips, O.	Oconee	R. 5, Westminister
Poore, R. D.	Anderson	R. 4, Belton
Powell, J. V.	Oconee	R. 1, Madison
Powell, S. L.	Oconee	R. 1, Madison
Pruitt, Hazel	Anderson	320 W. Franklin St.
Pruitt, Mrs. J. A.	Anderson	320 Calhoun
Quinn, W. R.	Cherokee	Gaffney
Ramage, Lila	Oconee	Fair Play
Ramsey, Sarah K.	Pickens	R. 1, Calhoun
Rector, T. E.	Spartanburg	R. 2, Wellford
Reeves, R.	Colleton	Cottageville
Richbourg, S. E.	Spartanburg	Woodruff
Richbourg, W. A.	Pickens	Liberty
Rogers, Hattye	Abbeville	Abbeville
Rush, J. D.	Kershaw	R. 4, Camden
Salley, H. B.	Aiken	Salley
Sams, Carrie O.	Cherokee	Gaffney
Sams, R. H.	Florence	Lake City
Seawright, Bessie P.	Greenville	R. 1, Piedmont
Seawright, Colilla	Greenville	R. 1, Piedmont
Shannon, H. W.	Richland	R. 1 English
Shealy, Luther L.	Newberry	Little Mountain
Shields, H. L. B.	Spartanburg	R. 1 Cherokee
Simpson, Nannie	Newberry	Prosperity
Smith, Amanda	Anderson	235 Sayre St
Smith, Clara A.	Anderson	Pelzer
Smith, Clara R.	Oconee	West Union
Smith, Estelle	Oconee	R. 1, Madison
Snipes, A. Jeanette	Anderson	Pelzer
Sorrells, Minnie L.	Oconee	Westminister
Southard, Anna B.	Oconee	R. 2, Walhalla
Spearman, Frieda B.	Anderson	836 Welch Ave.
Spencer, C. R.	Richland	Eastover
Stallworth, W. H.	Lancaster	Heath Springs
Steck, Pauline, A.	Oconee	Walhalla
Stewart, Elva C.	Pickens	R. 1, Pickens

Name and Course	**County**	**Residence**
Stewart, Ethel E.	Pickens	R. 1, Pickens
Stewart, Eula M.	Pickens	R. 1, Pickens
Stokes, T. E.	Darlington	R. 2, Darlington
Stovall, Janie L.	Anderson	Townville
Struttton, Annie L.	Oconee	Walhalla
Stuwart, Marie E.	Anderson	709 North Fant
Sullivan, Mrs. Kate	Anderson	1132 S. McDuffie
Thomas, O. H.		Franklin, N. C.
Thomas, Penola	Anderson	Townville
Tollison, Mrs. E. T.	Anderson	133 W. Hampton St
Trail, Olive	Spartanburg	Moore,
Turner, Mrs. Mary H.	Spartanburg	Landrum
Vassy, J. C.	Florence	Timmonsville
Verner, Clara M.	Oconee	Seneca
Ward, Jessie M.	Oconee	R. 2, Salem
Watkins, Grace	Anderson	Belton
Watson, Cora L.	Darlington	Hartsville
Watson, Fanny	Darlington	Hartsville
Welborn, Claudia	Pickens	Pickens
West, J. W.	Greenville	R. 3, Greer
West, . W. W.	Oconee	R. 2, Westminister
White, Sallie	Oconee	R. 1, Seneca
Whitfield, Keiffer	Anderson	R. 1, Townville
Williams, Nannie Mae	Laurens	R. 5, Laurens
Willis, J. E.	Oconee	Oakway
Wilson, Leila A.	Anderson	Pendleton
Wilson, Lucy N.	Anderson	Belton
Wingo, W. F.	Laurens	R. 2, Laurens
Wolfe, F. U.	Orangeburg	Elloree
Wolfe, J. J.	Lexington	Batesburg
Wood, Mittie M.	Oconee	R. 2, Walhalla
Wyatt, Lottie	Oconee	R. 1, West Union

1922 SUMMER SCHOOL—COLLEGE MAKE-UP COURSES

Allen, M. W.	Hampton	Estill
Anderson, E. K.		Auburndale, Fla
Barrs, T. A.	Oconee	Clemson College
Bodiford, H. O.	Oconee	Clemson College
Boggs, Mary A.	Pickens	Liberty
Boyle, B. A.	Williamsburg	Greeleyville
Burriss, A.	Anderson	R. 8, Anderson
Burton, C. C.	Union	Union
Byrd, D. A.	Aiken	Granitville
Samuel, C. N.		Hendersonville N. C.
Cathcart, A. B.	Fairfield	Winnsboro
Chappell, W. I.	Fairfield	Jenkinsville
Clement, B. L.	Spartanburg	205 Park Ave
Dacus, J. A.	Anderson	Williamston
Dotterer, E. G.	Charleston	123 Ashley Ave.
Epting F. N.	Newberry	Little Mountain
Epting, J. C.	Newberry	R. 1, Little Mountain
Fadely, S. H.	Oconee	Clemson College
Felder, J. H.	Clarendon	Silver
Fletcher, H. W.	Marlboro	McColl
Folk, J. L.	Allendale	Fairfax

Name and Course	**County**	**Residence**
Freeman, W. C.	Oconee	Clemson College
Gibson, R. F.	Orangeburg	Norway
Griffin, G. H.	Berkeley	Jamestown
Guess, J. P.	Allendale	Appleton
Hartzell, George	Chesterifeld	Cheraw
Hewer, J. C.	Oconee	Clemson College
Henry, H. S.	York	Bowling Green
Hobson, P. H.	Anderson	Sandy Springs
Jackson, S. L.	Anderson	Starr
Johnson, J. M.	Abbeville	Abbeville
Jones, J. F.	Anderson	Starr
Jordan, S. B.	Oconee	Clemson College
Kelley, Floride	Pickens	Central
Kibler, J. W.	Newberry	Pomaria
Kirk, R. S.	Orangeburg	Eutawville
Klugh, W. W.	Oconee	Clemson College
Koon, H. E.	Lexington	Peak
Lang, G. B.	Hampton	Garnett
Lewis, J. G.	Anderson	R. 1, Williamston
Ligon, L. L.	Anderson	220 W. Whitner St.
Longley, J. M.		LaGrange, Ga
Lyons, J. J.	Anderson	South Main St
Martin, M. V.	Paris	France
Mathews, D. T.	Pickens	Pickens
McClimon, M. L.	Greenville	Greer
McGee, J. A.	Anderson	Starr
McHugh, J. B.	Oconee	Clemson College
Melton, L. H.	Chester	Chester
Miller, C. L.	Greenville	Greenville
Miller, J. H.	Newberry	R. 2, Little Mountain
Miller, J. R.	York	R. 6, York
Muthiah, A D.		India
Pate, C. P.	Pickens	Calhoun
Pearson, A. S.	Spartanburg	R. 1, Woodruff
Pickens, R. W.	Pickens	Easley
Pruitt, B. A.	Anderson	320 W. Franklin
Ray, W. S.	Barnwell	Blackville
Rhem, C. F.	Williamsburg	Rhems
Robinson, A. C.	Sumter	Oswego
Robinson, C. A.	Fairfield	Winnsboro
Robinson, L. H.	Pickens	Pickens
Rogers, J. F.	Marion	Mullins
Rowland, J. R.	Pickens	Central
Rush, J. F.	Anderson	Pendleton
Sawyer, G. W.	Saluda	Monetta
Seaborn, G.	Oconee	Walhalla
Shanklin, J. A.	Greenville	Greer
Sheldon, E. E.	Pickens	Liberty
Stoudenmire, L. C.	Calhoun	Lonestar
Strother, F. V.	Oconee	Walhalla
Taber, W. P.	Calhoun	Fort Motte
Tennant, A. B.	Fairfield	Winnsboro
Turnipseed, B. R.	Spartanburg	East Main St.
Welch, W. F.	Marlboro	Clio
Wise, G. C.	Newberry	Prosperity
Wolfe, Mildred	Orangeburg	North
Woodward, T. E. P.	Aiken	R. 1, Aiken
Yeomans, T. L.		Dawson, Ga.

1922 SUMMER SCHOOL—COTTON GRADING COURSE

Name and Course	County	Residence
Anderson, W. L.	Anderson	R. 2, Belton
Carter, J.	Abbeville	Abbeville
Gambrell, L. M.	Anderson	R. 2, Belton
Gambrell, W.	Anderson	R. 2, Belton
Garvin, W. R.	Anderson	Pendleton
Gentry, P. B.	Anderson	R. 2, Belton
Givens, J. W.	Greenville	Fountain Inn
Hollingsworth, R. E.	Laurens	Cross Hilll
Lingle, C. C.	Kershaw	Camden
Longley, J. M.		LanGrange, Ga.
McLendon, C. A.		330 W. Peachtree St., Atlanta Ga.
Moore, H. A.	Anderson	Honea Path
Robinson, C. A.	Fairfield	Winnsboro
Simmons, W. R.	Laurens	Cross Hill
Williams, S. B.	Aiken	Seivern
Wyse, J. C.	Saluda	Saluda

1922 SUMMER SCHOOL—ENTRANCE COURSES

Boseman, T. R.	Darlington	R. 4, Darlington
Brennecke, R. C.	Orangeburg	Norway
Dalrymple, Annie M.	Anderson	R. 1, Pendleton
Dillard, W. P.	Greenville	R. 4, Greer
Garnett, J. K.	Hampton	R. 1, Garnett
Hendrix, J. H.	Greenville	Greenville
Jones, P. C.	Anderson	Starr
Martin, B. V.	Oconee	Clemson College
Martin, Myrtle	McCormick	McCormick
McHugh, R. S.	Oconee	Clemson College
Moore C. A.	Union	Union
Newman, C. C.	Oconee	Clemson College
Pardue, W. A.	Edgefield	R. 3, Trenton
Pruitt, J. M.	Anderson	R. 1, Anderson
Rogers, Carolyn M.	Oconee	Walhalla
Wilbanks, B. H.	Oconee	Clemson College

1922 SUMMER SCHOOL—U. S. V. B. STUDENTS

Abercrombie, C. L.	Oconee	Seneca
Adams, J. O.	Greenwood	Greenwood
Allen, S. E.	Pickens	Clemson College
Allgood, F. G.	Pickens	R. 2, Pickens
Anders, W. B.	Pickens	R. 6, Easley
Ashe, M. W.	York	R. 1, Bullock Creek
Barnett, E. S.	Pickens	Central
Bennett, C. C.	Pickens	Calhoun
Bolick, C. F.	Greenville	4th Ave 9 Judson
Boone, L. W.	Kershaw	Cassatt
Boykin, J. S.	Kershaw	R. 5, Camden
Brock, R. F.	Anderson	R. 3, Iva
Breeden, G. G.	Pickens	Clemson College
Bryant, Jay	Anderson	Anderson
Bryant, T. L.	Pickens	Liberty
Burley, C. G.	Pickens	Clemson College
Butler, G. W.	Pickens	Clemson College

Name and Course	**County**	**Residence**
Cathey, H. L.	Pickens	Calhoun
Chassereau, H.	Colleton	Walterboro
Cash, A. C.	Spartanburg	Cowpens
Cooper, L. E.	Pickens	Central
Cothran, E. F.	Pickens	Central
Covington, E. A.	Williamsburg	Salters Depot
Crenshaw, L. A.	Pickens	R. 1, Dacusville
Crout, P .L.	Lexington	Gilbert
Dawkins, A.	Chester	Lando
Dawsey, J. W.	Horry	Aynor
Dorn, E.	Edgefield	Pleasant Lane
Droze, I. A.	Dorchester	R. 2, Summerville
Felder, O. P.	Orangeburg	Bowman
Fields, W. T.	Pickens	R. 5, Easley
Garrett, G,	Pickens	Clemson College
Gaston, R. L.	Chester	R. 2, Lawryville
Goude, G. O.	Georgetown	Plantersville
Griffith, W. V.	Spartanburg	Tucapaw
Hall H.	Pickens	Clemson College
Hawkins, B. J. B.	Anderson	Anderson
Hayes, B. M.	Anderson	Orr Rul. Sta.
Hendricks, R.	Pickens	R. 4, Pickens
Hendrick, E. J.	Pickens	Clemson College
Holt W. E.	Pickens	Calhoun
Hopkins, W. S.	Anderson	R. 3, Belton
Houston, L. A.	Pickens	Clemson College
Hughes, F. J.	Pickens	Calhoun
Hutchinson, W. A.	Anderson	330 Lee St.
Jenkins, J. E.	Pickens	Clemson College
Jones, W. J.	Pickens	Clemson College
Kay, C. D.	Anderson	Anderson
Kelley, C. M.	Pickens	Calhoun
Kelley, B. D.	Darlington	Darlington
Kirby, C. T.	Spartanburg	Spartanburg
Laurens, S. D.	Pickens	Central
Lesley, T. A.	Pickens	R. 1, Liberty
Loveless, H. L.		Mooresville, N. C.
Lovell, C. B.	Pickens	Liberty
Madden, G.	Pickens	R. 1, Calhoun
Maddox, A. B.	McCormick	McCormick
Mayson, B. M.	Anderson	Pendleton
McAlister, M.	Anderson	D. St. No. 35
McColl, L. P.	Pickens	Clemson College
McCoy, W. B.	Pickens	Clemson College
McTeer, N. V.	Pickens	Clemson College
Mixon, G. F.	Pickens	Calhoun
Morgan, W. A.	Pickens	Central
Mull, E. M.	Pickens	Clemson College
Newbanks, J. H.	Aiken	R. 1, Aiken
Nix, J. H.	Oconee	R. 1, West Union
Nodine, H. L.	Anderson	Pendleton
Patterson, E. T.	Pickens..	Pickens
Powell, J. T.	Pickens	R. 6. Pickens
Prince, N. A.	Oconee	Walhalla
Rains, B.	Spartanburg	R. 2, Spartanburg
Rice, J. F.	Spartanburg	Spartanburg
Richardson, G. P.	Marion	R. 1, Marion

Name and Course	County	Residence
Royal, J. H.	Greenville	R. 8, Greenville
Shehan, D. B.	Lancaster	Lancaster
Shumpert, R. S.	Pickens	Clemson College
Sides, A. H.	Greenville	R. 7, Greenville
Sligh, C. O.	Newberry	Newberry
Smith, W.	Chester	Chester
Stansell, L. E.	Pickens	Calhoun
Stanton, H. M.	Anderson	Belton
Stevens, G. C.	Greenville	1001 East North St.
Upton, J. C.	Anderson	Pelzer
Whitener, W. J.	York	York
Whitmire, F. L.	Oconee	R. 1, West Union

1922 SUMMER SCHOOL—AGRICULTURAL CLUB BOYS

Name and Course	County	Residence
Barrett, C.	Lancaster	R. 2, Heath Springs
Becknell, J.	Union	R. 2, Union
Bishop, H.	Chester	R 1, Chester
Blackmon, H.	Kershaw	Bethune
Campbell, H.	York	Tirzah
Carter, E.	Colleton	Smoaks
Caughman, E.	Lexington	R. 6, Lexington
Dominick, D.	Greenwood	R. 2, Ninety-Six
Drake, F.	Anderson	R. 7, Anderson
Harley, J. H.	Allendale	R. 1, Allendale
Harmon, G. E.	Lexington	R. 1, Lexington
Hellams, T.	Laurens	R. 1, Barksdale
Houck, J.	Lee	R. 5, Bishopville
Horton, B.	Chesterfield	R. 4, Jeffereson
King S.	Greenville	R. 1, Piedmont
Littlejohn, Howard	Anderson	Belton
Lowie, F.	Oconee	R. 3, Seneca
Lynn, A.	Chester	R .2, Richburg
Martin, Y.	Greenwood	R. 1, Ware Shoals
McNaughton, B.	Kershaw	R. 2, Bethune
Mae, C.		R. 3, Grover N. C.
Nettles, W.	Sumter	Wedgefield
Padgett, J. j	Colleton	R. 2, Smoaks
Patrick, J.	Fairfield	White Oak
Poole, R.	Cherokee	R. 6, Gaffney
Ramsey, M.	Sumter	Wedgefield
Sheeam, D. C.	Spartanburg	R. 2, Inman
Simmons, C.	Spartanburg	Fair Forest
Smith, E. B.	Pickens	R. 4, Pickens
Stevenson, R.	Fairfield	R. 3, Winnsboro
Templeton, E.	Greenwood	R. 2, Ninety-Six
Turner, C.	Fairfield	R. 8, Winnsboro
Watts, Otis	Newberry	R. 6, Prosperity
Weinberg, I.	Darlington	R. 5, Darlington
White, R.	Oconee	R. 1, Westminister
Williams, W.	Pickens	R. 1, Dacusville
Windham, W.	Darlington	Lamar
Young, F.	Spartanburg	R. 1, Campobello
Bryan, C.	Allendale	R. 1, Allendale
Parks, E.	Lancaster	R. 1, Lancaster

ENROLLMENT OF STUDENTS

Regular Session 1922-1923.

By Counties in South Carolina.

Abbeville	11
Allendale	10
Aiken	17
Anderson	107
Bamberg	7
Barnwell	8
Beaufort	6
Berkeley	5
Calhoun	14
Charleston	27
Cherokee	18
Chester	34
Chesterfield	7
Clarendon	8
Colleton	11
Darlington	19
Dillon	15
Dorchester	4
Edgefield	8
Fairfield	17
Florence	21
Georgetown	6
Greenville	47
Greenwood	28
Hampton	13
Horry	11
Jasper	1
Kershaw	14
Lancaster	12
Laurens	27
Lee	6
Lexington	15
Marion	17
Marlboro	17
McCormick	6
Newberry	22
Oconee	61
Orangeburg	45
Pickens	58
Richland	28
Saluda	5
Spartanburg	45
Sumter	24
Union	25
Williamsburg	9
York	33
Totals For South Carolina	948

By States and Foreign Countries.

Alabama	3
District of Columbia	3
Florida	5
France	1
Georgia	16
British West Indes	1
India	1
Japan	1
Maine	1
North Carolina	20
New Jersey	1
Oklahoma	2
Pennsylvania	1
South America	1
South Carolina	947
Virginia	1
West Virginia	1
Total	1,008

Summary by Classes and Courses During the Regular Session

CLASS	Agriculture	Eng'ing Unclassified	Electrical Eng'ing.	Mech. Engineering	Civil Engineering	Architecture	Total Engineering	Textile Industry	Chemistry	Chem. Engineering	Miscellaneous	Totals
Senior	52	......	25	20	12	2	59	15	1	4	......	131
Junior	49	37	......	......	19	11	67	20	1	3	......	140
Sophomore	72	76	......	......	22	11	109	44	5	3	......	233
Freshman	119	165	......	......	......	......	165	......	......	......	......	284
One-Year Agri.	18	......	......	......	......	......	......	......	......	......	......	18
Two-Year Agric.	18	......	......	......	......	......	......	......	......	......	......	18
Two-Year Textile	......	......	......	......	......	......	......	12	......	......	......	12
Special and Irregular	18	......	5	......	6	1	12	7	......	......	......	37
Pre-Medical	......	......	......	......	......	......	......	......	......	......	16	16
Special U.S.V.B. Students	92	5	......	......	......	......	5	22	......	......	......	119
TOTALS	438	......	......	......	......	......	417	120	7	10	16	1008

Summary of Students in Summer School

Teachers' Courses	240
College Make-up Courses	79
Entrance Courses	16
Cotton Grading	16
U. S. V. B. Students	86
Club Boys' Courses	41
Total Summer School	478

General Summary of Enrollment

Regular College Session	1,008
Summer Session	478
Total Enrollment	1,486
Less counted twice	160
Total individuals enrolled	1,326

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THE CLEMSON AGRICULTURAL COLLEGE

OF

SOUTH CAROLINA

THIRTY-FIRST YEAR

ANNUAL CATALOGUE

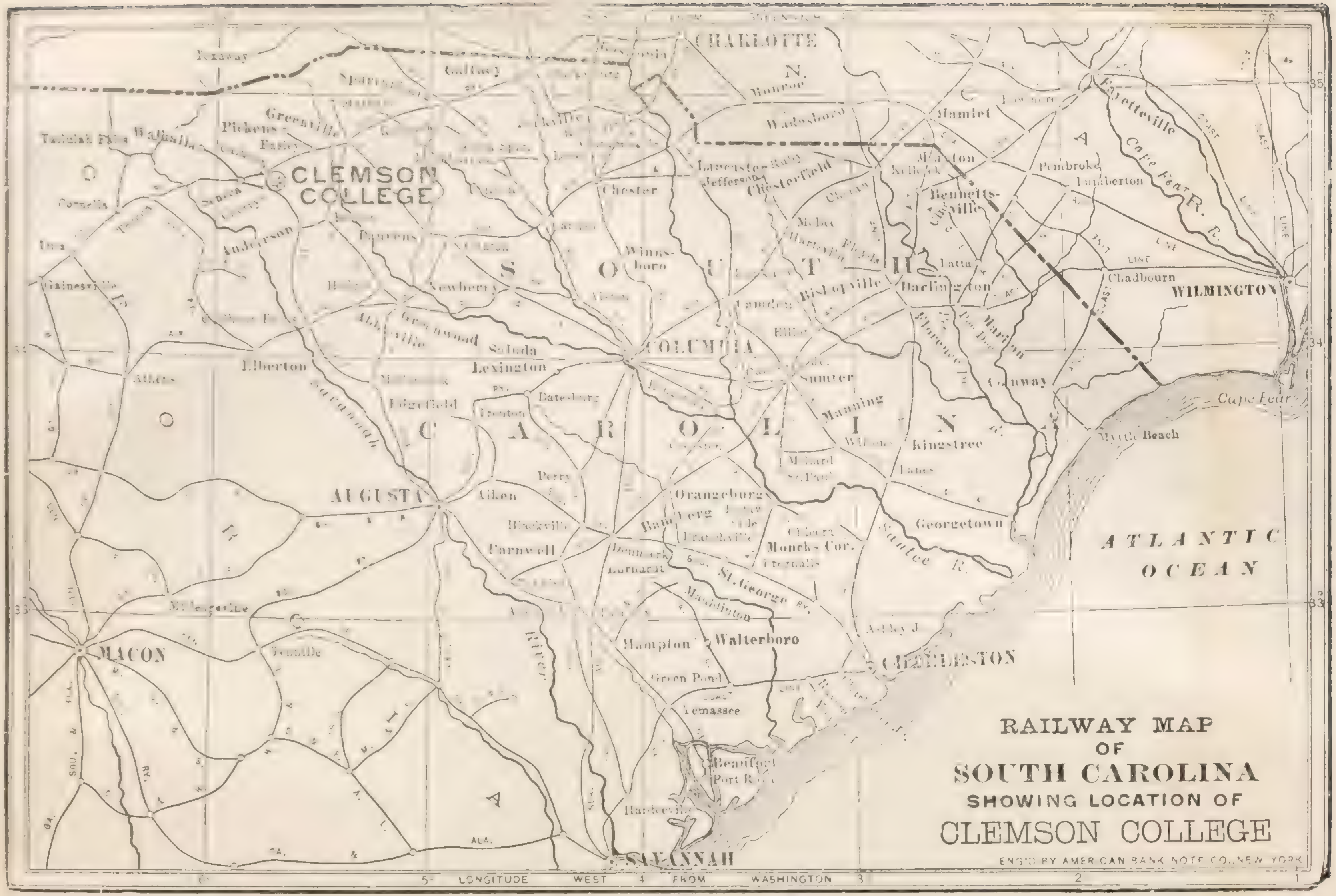
1923-24

ANNOUNCEMENTS

1924-25

Telegraph and Post Offices: Clemson College, S. C.

Freight and Express Offices: Calhoun, S. C.



RAILWAY MAP
OF
SOUTH CAROLINA
SHOWING LOCATION OF
CLEMSON COLLEGE

ENG'D BY AMERICAN BANK NOTE CO., NEW YORK

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1924

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CLEMSON COLLEGE CALENDAR

Session 1924-1925

1924 First Semester

Sept. 3—Opening of 32nd Session. First semester begins at 8:30 A.M.
Oct. 17—Stated meeting of Board of Trustees.
Nov. 8—First half of first semester ends.
Nov. 27—Thanksgiving Day. A holiday.
Dec. 24—First day of Christmas holidays.

1925

Jan. 4—Students return from Christmas vacation by 11:30 P. M.*
Jan. 19—Lee's birthday. Half holiday.
Jan. 24—End of first semester.

Second Semester

Jan. 26—Second semester begins.
Feb. 22—Washington's birthday. A holiday.
Mar. 18—Calhoun's birthday. Half holiday.
Mar. 20—Stated meeting of Board of Trustees.
Mar. 28—First half of second semester ends.
May 6—Stated meeting of Board of Visitors.
May 23—Examinations for Senior Class end.
May 25-30—"Make-up" week for Senior Class.
May 31—Commencement exercises begin. Baccalaureate sermon. Closing exercises of the Y. M. C. A.
June 1—Closing exercises of the Literary Societies. Military exercises. Address of Alumni Orator. Alumni Meeting.
June 2—Commencement Day. Graduating Exercises.
June 8—Summer School begins.
June 19—Stated meeting of Board of Trustees.
July 10—Scholarship and entrance examinations at the county seats.
July 13—Last day for receiving scholarship applications.
July 18—Summer School ends.

Note:—The above schedule is subject to change by the Faculty.

* Barracks wlil be open Jan. 3rd to receive cadets who do not wish to travel on the Sabbath.

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Term Expires 1928

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Term Expires 1926.

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*The President of the Board of Trustees is, ex officio, a member of all Committees.

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1923

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Second District

J. L. Mims .... Edgefield

Third District

E. S. Blease .... Newberry

Fourth District

C. O. Hearon .... Spartanburg

Fifth District

William Godfrey .... Cheraw

Sixth District

Olin Sawyer .... Georgetown

Seventh District

Christie Benet .... Columbia

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Surgeon. Professor of Hygiene and Health Officer

KATHERINE BOCQUET TRESCOT,
Librarian

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* Died January 22, 1924.

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Instructor in English

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Instructor U. S. V. B. Students.

ANGUS GRAY FERGUSON
Instructor U. S. V. B. Students.

** Died December 12, 1923.

* On leave of absence for one year.

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THERMAN KELLEY SISK, A. B., M. A.,
Associate Professor of Education
CHARLES LEE MORGAN, B. S. A.,
Associate Professor of Animal Husbandry
GEORGE P. HOFFMAN, B. S.,
Associate Professor of Horticulture
BEN E. GOODALE, B. S.,
Associate Professor of Dairying
JOHN T. McALISTER, B. S.,
Associate Professor of Agronomy and Farm Machinery
CLIFFORD O. EDDY, A. B., M. S.,
Associae Professor of Zoology and Entomology
* GILBEART HOOPER COLLINGS, M. S.,
Assistant Professor of Agronomy
WILLIAM DOYLE REED, B. S.,
Assistant Professor of Entomology

---

*On leave.

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Assistant Professor of Agronomy and Soils
DANA GIBSON STURKIE, M. S.,
Assistant Professor of Agronomy
WILLIAM HAROLD WASHINGTON, B. S., M. S. A.,
Assistant Professor of Agricultural Education
GRAHAM E. WILSON, B. S. A., M. S. A.,
Assistant Professor of Agricultural Education
MRS. W. B. AULL, B. A.,
Instructor in Botany
WILLIE THOMAS PATRICK, B. S.,
Federal Board Instructor in Agronomy
MONROE EVANS GARDNER, B. S.,
Federal Board Instructor in Horticulture

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Professor of Chemistry
WILLIAM LEROY LIPPINCOTT, B Chem.,
Professor of Chemistry
FRANK HOWELL POLLARD, B. Chem., Ph. D.,
Assistant Professor of Chemistry
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Assistant Professor of Chemistry

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CHARLES STEBBINS DOGGETT,
Director—Professor of Textile Chemistry and Dyeing
ROBERT KNIGHT EATON, A. B.
Professor of Weaving and Designing
HAROLD BENNETT ADAMS,
Professor of Industrial Education
State Supervisor of Industrial Education
HAROLD WINSHIP HORTON,
Associate Professor of Carding and Spinning
ROBERT JOSEPH CHEATHAM, B. S.,
Assistant Professor of Textile Industry
MALCOLM E. CAMPBELL,
Instructor in Textiles

MILITARY DEPARTMENT

COLONEL MADISON PEARSON, (Major, U. S. A.)
Director—Professor of Military Science and Tactics
Commandant of Cadets

CAPTAIN HENRY W. LEE (U. S. A.)
Assistant Professor of Military Science and Tactics
Associate Commandant

CAPTAIN ALFRED G. BRADEN, (U. S. A.)
Assistant Professor of Military Science and Tactics

CAPTAIN THOMAS E. MAY, (U. S. A)
Assistant Professor of Military Science and Tactics

CAPTAIN LOYD VAN HORNE DURFEE, (U. S. A.)
Assistant Professor of Military Science and Tactics

LIEUTENANT HAROLD R. EMERY, (U. S. A.)
Assistant Professor of Military Science and Tactics

CAPTAIN JOHN E. OBERG, (Sergeant 1st Class, Medical Corps, U. S. Army, Retired),
Quartermaster—Assistant to the Commandant

STAFF SERGEANT CHARLES W. CRIPPS, (D. E. M. L.)
Instructor in Military Science and Tactics

STAFF SERGEANT JESSE M. PECK, (D. E. M. L.)
Instructor in Military Science and Tactics.

SERGEANT FRANK S. SINGER, (D. E. M. L.)
Instructor in Military Science and Tactics

MISCELLANEOUS OFFICERS

MARGARET L. SADLER,
Secretary to the President

JEAN B. SLOAN,
Assistant to the Registrar

BEULAH FERGUSON,
Stenographer to the Registrar

LOUISE POPE,
Clerk—Commandant's Office

EDWARD BERNARD ELMORE,
Bookkeeper

B. B. BURLEY,
Assistant Bookkeeper

JAMES DOUGLAS HARCOMBE,
Mess Officer

MARGUERITE VERITY DOGGETT, A. B.
Reference Librarian.

VERA GRISE,
Professional Nurse
WILLIAM H. SAUNDERS,
Director of Athletics. Head Coach.
CORNELIA AYERS GRAHAM
Assistant Librarian
MRS. M. E. MIDDLETON,
Matron in Mess Hall
JAMES PERCIVAL LEWIS,
Superintendent of Roads
JOSEPH HEWER,
Superintendent of Construction and Repair

FERTILIZER ANALYSIS AND INSPECTION

RICHARD NEWMAN BRACKETT, A. B., Ph. D.,
Chief Chemist
HUGH MILTON STACKHOUSE,
Secretary Board of Fertilizer Control
BENJAMIN F. ROBERTSON, B. S.,
Chemist (Fertilizer Analysis)
JOHN TREUTLEN FOY, B. S.,
Assistant Chemist (Fertilizer Analysis)
BENJAMIN FREEMAN, B. S.,
Assistant Chemist (Miscellaneous Analysis)
MARGARET E. GASQUE,
Clerk to the Board of Fertilizer Control

RELIGIOUS OFFICERS

Y. M. C. A. Secretaries

PRESTON BROOKS HOLTZENDORFF, JR.,
General Secretary, Y. M. C. A.

HUGH EGGER ROBINSON,
Assistant Secretary, Y. M. C. A.

College Pastors

REV. GEORGE OLIVER GIBSON, A. B., A. M., B.D., S. T. M., Baptist

REV. GEORGE E. ZACHARY .... Episcopal

REV. JOHN McSWEEN, B. S., B. D. .... Presbyterian

REV. JOHN DAVID HOLLER A. B. .... Methodist

COMMENCEMENT SPEAKERS—JUNE 1923.

Baccalaureate Sermon

Dr. Edward Mack .... Richmond

Commencement Address

Dr. W. J. McGlothlin, ... Greenville, S. C.

STANDING COMMITTEES OF THE FACULTY*

Discipline—Earle, Brackett, Calhoun, Daniel, Doggett, Martin Barre.

Re-examination and Promotions—Martin, Brackett, Calhoun, Daniel, Dargan, Doggett, Earle, Littlejohn.

Entrance Requirements—Daniel, Calhoun, Holmes, Littlejohn, Martin.

Schedule—Lee, Aull, Durfee, Henry, Holmes, Horton, Littlejohn, Martin, Mitchell, Rhodes.

Student Petitions—Littlejohn, Blackwell, Pearson, Henry, Martin, Rhodes.

Athletic—Henry, Calhoun, Shanklin, Mitchell, Saunders.

Library—Bryan, Calhoun, Dargan, Henry, Bradley, Doggett.

Irregular Students—Hunter, Aull, Bradley, Klugh, Mitchell.

Catalogue—Littlejohn, Lee, Eaton, Mitchell, Withers, Rosenkrans.

Religious Services—Earle, Bradley, Holmes, Sisk.

Chapel Entertainments—Daniel, Johnstone, Martin, Henry.

State Fair—Harris, Aull, G. H., Horton, Durfee, Mitchell, McAlister, Littlejohn.

Text-book—Shanklin, Cheatham, Harris, Mitchell.

Summer School—Calhoun, Daniel, Doggett, Horton, Henry Crandall, Klugh, Littlejohn, Watkins.

Rules—Calhoun, Henry, Klugh, Littlejohn, Shanklin.

Education Disabled Soldiers—Calhoun, Daniel, Doggett, Littlejohn, McHugh.

Campus—Newman.

Chapel Music—Carpenter.

* The President is, ex officio, a member of all committees. The first named in each instance is chairman.

PART II.—ADMISSION—EXPENSES.

ADMISSION TO COLLEGE

Requirements for Admission to Four-Year Courses

Session 1924-1925.

I.—General Requirments.—All applicants must be at least sixteen years of age at the time of entrance and must be free from contagious or infectious disease. A certificate of good moral character and honorable discharge from the last school attended is also required.

II.—Scholastic Requirements.—For **unconditional** admission to the freshman class the applicant must present fifteen units from an accredited high school, of which three units must be in English, two and one-half in mathematics, and two in history. The remaining seven and one-half units may be selected from the list of high school subjects.

An applicant who has not completed the course of study in high school will be required to stand entrance examinations.

For **conditional** admission not fewer than fourteen units are required, of which three units must be in English, two and one-half in mathematics, and two in history, the remaining seven and one-half to be selected from the list of high school subjects. Conditions must be removed by passing examinations in subjects not originally presented for entrance, by attending summer school, or by taking extra subjects in college. Applicants with less than fifteen units are advised to attend an approved summer school prior to entrance. Such additional work will not be counted toward a degree, but only for completion of entrance credits. Conditions must be removed before the beginning of the sophomore year.

III.—How to Make Application.—Those desiring to enter should write the Registrar, Clemson College, S. C., for the prescribed application bank. On this blank should be given a list of the subjects studied in school, the time devoted to each, and the quality of the work. The application should be returned to the college before August 15, or sooner if possible.

IV.—Methods of Admission.—An applicant may be admitted: (a) by certificate of graduation from high school; (b) by examination; (c) by individual approval for adult students; or (d) by a combination of these methods.

(a) A **certificate** of graduation from high school signed by the proper official will admit an applicant to the freshman class without examination, provided the certificate entitles the holder to the number of units required for admission. In the event the number of units made by the school from which the applicant comes is less than required number, the deficiency must be made up by examination. No credit will be given on certificate for work done in high school unless the applicant is a graduate of the school.

(b) **Examination.**—Applicants who are not graduates of secondary schools or applicants who are unable to enter on certificate will be required to take entrance examinations. Any or all entrance requirements may be met by examination. Candidates having examinations to stand are advised to take those examinations held by each county superintendent of education on the second Friday in July. These examinations are for the award of scholarships and for credit toward entrance. If by these examinations the candidate finds himself unprepared, he will be saved the expense of a trip to the college in September. Entrance examinations are also held at the opening of college in September.

Schedule of Entrance Examinations

Hour	Thursday, Sept. 5	Friday, Sept. 6
9—11 A. M.	English Grammar	History
11 A. M.—1 P. M.	Composition and Literature	History
2—5 P. M.	Algebra	Plane Geometry

Examinations in other subjects will be arranged.

V.—Admission of Adult Students.—An applicant over twenty years of age may be admitted to the freshman class without fulfilling the entrance requirements, provided he gives evidence of seriousness of purpose and of sufficient preparation to pursue the course with profit. Such a student must satisfy all requirements before graduation.

VI.—Admission to Advanced Standing.—Work that has been taken in other colleges will be credited for an equivalent amount of work so far as it applies to any course offered in the college. The applicant must present: (a) a letter of honorable dismissal from the institution last attended, and (b) an official transcript of his record, including entrance credits. College credits given by transfer are provisional and may be cancelled at any time if the student's work is unsatisfactory. A student coming from another institution must spend at least one regular session in the college before he is eligible to apply for a degree. College credit may be given a graduate of an accredited secondary school by examination only.

Special Students.—A limited number of persons in good standing and over twenty-one years of age who desire to avail themselves of special priviliges offered by the college may be admitted as special students. To such persons the opportunity is given, under the advice and with the consent of the director of the department concerned, to pursue special lines of study or investigation in any of the subjects taught in the college, provided the work can be scheduled. Special students are not permitted to live in the barracks, but are subject to general regulations of the college requiring regular attendance, good conduct and diligent prosecution of the studies selected. Degrees are not given to students in special courses, but a certificate of proficiency will be given when the work completed is deemed worthy of it. Room and board may be secured in the community at reasonable rates.

High School Subjects Accepted for Admission to the Freshman Class

ENGLISH—	
First year	1
Second year	1
Third year	1
Fourth year	1

MATHEMATICS—	
Algebra	1 ½ or 2
Plane Geometry	1
Solid Geometry	½
Advanced Arith.	½

HISTORY—	
Ancient History	1
Med. and Mod. History	1
U. S. History and Civics	1
English History	1

FOREIGN LAUNGUAGE—	
Latin	1 to 4
French, Spanish or German	1 to 2

SCIENCE—	
Biology	1
Chemistry	1
Physics	1
General Science	1
Physiography	1

VOCATIONAL—	
Agriculture	1 to 6
Com. Geography	1
Com. Arithmetic	1
Bookkeeping	1
Stenography	1
Manual Training	1 to 2
Drawing	1 to2

Requirements For Admission to Short Courses

Two-Year Textile Course.—Applicants must be at least eighteen years of age, and must have had at least one year's experience in cotton mill work. A knowledge of English and Arithmetic is necessary to pursue this course. The completion of at least one year in high school is advisable though not required. Applicants for this course are required to make application on the prescribed form furnished by the college Registrar. The completion of this course does not prepare a student for admission to the freshman class. A certificate of proficiency will be given for the completion of this course if the work is deemed worthy of it.

Pre-Medical Course.—Fifteen high school units are required for admission to this course. Those desiring to prepare for a pre-medical course are advised to complete at least two years of language in high school. The prescribed application blank is required and must be mailed in advance.

The Two-Year Course in Agriculture.—The equivalent of ten units is required for admission into this course. The work is arranged so as to give thorough training in the fundamentals of the different phases of agriculture. This course is well suited to the student who desires to spend only two years in college. Some of the subjects offered may be taken as condition subjects or as pre-technical work. Applicants for the two-year course are required to send the prescribed application form showing the work completed in high school.

General Information Regarding Admission of Students to all Courses

Students desiring to enter College should apply to the Registrar for application blanks, and these, properly filled out, should be returned to the Registrar as early in the summer as possible, and in no case later than August 15th. If later the applicant may be crowded out.

Certificates of good moral character are required of all candidates; and if the candidate comes from another college, this certificate must show that he was honorably discharged.

In the admission of students who have met the requirements of the College, the following will be observed.—

1. Students must undergo a medical examination, and no student will be admitted who is not healthy and free from contagious diseases including tuberculosis and venereal diseases. Vaccination is required of all students admitted.

2. In case the number of applicants exceeds the capacity of the College, students will be apportioned among counties in proportion to representation in the House of Representatives, under the following rules and regulations:

(a) As between applicants of equal preparation, the eldest will have the preference.

(b) Other things being equal, the first applicants will receive first consideration.

(c) When a county has not sent its quota, the places thus left shall be apportioned among the other applicants.

(d) Provided there is room in the barracks after the needs of the State have been met, students from outside the State may be admitted, and when once admitted may continue in College until the completion of their courses.

3. Applicants not entering promptly at the required date will have their rights given to applicants next on the roll.

Students upon arrival at the College at the opening of the session must report at once to the Registrar's office and matriculate before they will be assigned to quarters in the barracks. No student will be admitted to any of the classes or examinations of the College before matriculation and payment of fees.

Matriculation is equivalent to a pledge to conform to the rules of the College.

No applicant will be admitted until the following pledge has been filed with the Registrar. This pledge will be sent to old students and new applicants during the summer months, and must be returned promptly.

I, ..., hereby make application to enter the Clemson Agricultural College as a student for the session ....

In consideration of the advantages consequent thereon, **I solemnly promise on my honor** that, should I become a student of the said College during the said session,

(1) I will not strike, turn, or in any manner inflict pain or injury on any first-year student in said College, or by physical force compel any such student to perform any service or do any act incompatible with the conduct of a cadet and a gentleman.

(2) I will promptly, and of my own initiative, withdraw from said College, should I find myself unable or unwilling to keep the above promise.

(3) I will recognize the right of the President of the College to question me as to my observance of this pledge , and to answer truthfully any question touching my observance of it.

FEES AND EXPENSES

Settlement of College Fees.—Remittances should be made in cash, by money order, New York Exchange, or by local check, made payable to S. W. Evans, Treasurer. All required fees must be paid before a student can be assigned to a room in the barracks or permitted to begin work.

The fees and living expenses will be approximately as listed below. A leaflet giving the exact cost, including uniforms, will be mailed to the parents of all applicants prior to the opening of college in September. The cost of books, which varies with the class and course, is not included in the figures given below:

Fees	1st quarter payable on entrance	2nd quarter payable Nov. 8th.	3rd quarter payable Jan. 24th.	4th quarter payable Mar. 28th.
Matriculation Fee	$ 3.00	$ 0.00	$ 0.00	$ 0.00
Hospital Fee at $1.25 per mo...	2.82	2.81	2.81	2.81
Breakage Fee	3.00	0.00	0.00	0.00
Laboratory Fee at 25c. per mo.	.57	.56	.56	.56
Incidental Fee at $1 per mo ...	2.25	2.25	2.25	2.25
Student Activity Fee	3.00	3.00	3.00	3.00
Living Expenses				
Board at $16 per mo	$36.00	$36.00	$36.00	$36.00
Room, Heat, Light and Water at $2.10 per mo.	4.73	4.73	4.72	4.72
Laundry at $1.33 1-3 per mo.	3.00	3.00	3.00	3.00
Uniforms (See below)—See explanation below—Uniforms				
(1) Total Without Tuition ...	**$58.37**	**$52.35**	**$52.34**	**$52.34**
Tuition if paid	10.00	10.00	10.00	10.00
(2) Total With Tuition	**$68.37**	**$62.35**	**$62.34**	**$62.34**
Credit to Scholarship Students ($100 plus $40 free tuition)	35.00	35.00	35.00	35.00
(3) Total for Scholarship Students	**$33.37**	**$27.35**	**$27.34**	**$27.34**

Uniforms: A student is not required to pay for his uniform on the opening day in September. The needs of the cadet will first be determined, full credit being allowed for any serviceable garments that pass inspection. A bill showing the garments needed as well as the cost will be mailed to parents.

The cost of the uniform cannot be definitely given at the time this catalogue goes to press. The uniforms are purchased by the college on the most favorable contract obtainable from a reputable manufacturer. The college makes no charge for handling the uniforms and makes no profit on them. If any allowance is made for uniforms by the Government this will be credited on the account.

Each student is required to provide himself with a dress uniform and a service uniform. If properly cared for the dress uniform should last for four years and the service uniform more than one session. After the first year the cost of uniforms should therefore be cut approximately in half.

Shoes: In addition to ordinary high top black shoes each cadet will be required to have one pair of tan shoes, army style.

Medical Fee: The medical fee paid by each student is intended to cover all ordinary cases of sickness and the treatment and medicines necessary. It is not intended to cover fees of doctors or specialists called into consultation, for performing operations, for special nurses, or for any medical or surgical attentions performed away from the college. Such expenses must be borne by the parent. The right of the college surgeon, with the approval of the President of the college, to incur in behalf of any student under his care any of these extra services is hereby expressly reserved.

Student Activity Fee: This fee entitles a cadet to admission to all lyceum entertainments, athletic games, privilege of Y. M. C. A. Building, and subscription to the college papers, "The Tiger" and "The Chronicle."

Breakage. The breakage fee of $3.00 is a deposit to cover damages or destruction of College property when individual responsibility can not be located. Any amount remaining to the credit of a student at the end of the session will be refunded. A student will be required to pay directly to the Treasurer for any damage done to College property for which he is personally responsible. The occupants of a room will be held responsible for any damage to property in the room.

Tuition. Tuition is $40.00 per session, payable quarterly. Free tuition is granted to residents of South Carolina unable to pay the same provided they comply with the State laws. All applicants for free tuition must file with the College the prescribed application to the State Board of Public Welfare. This blank will be sent to all applicants by August 15th, and must be returned properly filled in before the opening of College.

Immediately after the opening of College, the application is forward to the State Board of Public Welfare, which Board is required by law to investigate the finanical standing of the parents or guardian, or the applicant himself if he is of age. This Board reports its finding, together with its recommendations, to the Clemson College Board of Trustees, who may revoke or confirm the recommendations.

Any person required to pay tuition may appeal to the State Board of Education as provided by law.

Applicants filing the prescribed form will be granted free tuition pending investigation by the State Board of Public Welfare and action by the Board of Trustees. Applicants for free tuition will be notified of the results of the investigation by about the first of January.

All Students are required to provide themselves with two mattress covers, and two clothes bags. These are regulation articles and can be secured only at the Cadet Exchange. They will last for the entire course of four years and can often be bought second hand.

Refund to Students. Refunds will be made to students under the following rules:

1 A refund for uniforms will not be guaranteed to students who withdraw from the college after the uniforms have been ordered. If order cannot be cancelled the uniforms will be sent to the cadet upon receipt of the same.

2 A refund for **living expenses** will be made at the rates charged, but no refund will be made for interruptions of less than two weeks or in cases of discharge issued less than two weeks from the end of the current quarter.

3 No **fees** will be refunded.

4. A refund of **all** moneys, except the matriculation fee of $3.00 and $1.00 per day for board, etc. will be made to a student who fails to meet the entrance requirements and who leaves college within ten days of the date of his matriculation; provided, however that the refund for uniform cannot be guaranteed if the same has been ordered.

5 Any balance of the $3.00 breakage fee at the end of the session will be sent to the parents after the close of the session in June.

6 The college will not be liable for articles lost or stolen in the baracks.

7 The college will not be liable for lost or damaged laundry, unless reported within two days after the date upon which laundry was due to be delivered and then not more than the actual depreciated value of such articles as have been lost or damaged.

Optional Expenses. It is not possible to give an estimate of a cadet's expenditures for such amusements as dancing, moving pictures, etc. This depends largely upon the disposition of the young man. The college endeavors to reduce to a minimum the temptation to spend money needlessly, but the authorities cannot be responsible for a cadet's private expenditures. This must be a matter between him and his parents.

Subscription to the "Annual" and membership in the Literary Societies are very desirable. but are optional. These will cost approximately $5.00 for the session.

STUDENT HELPS

There is little opportunity at Clemson for a cadet to pay any large part of his expenses by working. There are few jobs that he can get, and his time is so fully taken up by college work that little remains except that which should be used in recreation and in participation in student activities. A substantial part of a college education lies outside the curriculum. If a student must labor every spare hour to pay his way, he not only dissipates his energy in non-educational effort, but he misses some of the choicest privileges of college life. He misses the chance to read in the library, to write for the college publications, to prepare for the literary society work, to engage in athletics and the many other items that go to make up college life at its fullest.

It is a much better investment for a student to borrow the small amount of money necessary to pay his way at Clemson than for him to take up all his spare time in non-educational effort.

Scholarships and membership in the R. O. T. C. are available sources of help to pay a cadet's way through Clemson. There are also several loan funds available under certain conditions to needy boys.

In the line of work that does not interfere with classes or recreation are about forty positions as waiters in the messhall. These positions require only about fifteen minutes before each meal and pay $8.00 per month—about half the cost of board.

FOUR-YEAR SCHOLARSHIPS

Statement of the State Laws and College Rules Governing the Award of Four-year Scholarships

1. Each county is allowed as many scholarships as it has representatives in the General Assembly. The total number for the State is now one hundred and seventy. The number of vacancies in any particular county can be learned by making inquiry of the Registrar of Clemson College.

2. Scholarship students are required to take one of the Agricultural Courses, except that one scholarship per county is allowed in the Textile Course. Scholarship students are not permitted to take the Engineering or other courses.

3. Each scholarship pays $100.00 per session in cash, and allows free tuition, worth $40.00 more. The regular scholarship is good for four consecutive years, unless terminated by the student's failure to maintain himself in his class and comply with the rules of the College.

The Trustees have ruled that failure to maintain himself cannot be excused on the grounds of sickness or other Providential reason.

4. A competitive examination is used as a basis for awarding the scholarships. The examinations are conducted by the County Superintendents of Education at the county seats, on the second Friday in July, from 9 A. M. to 4 P. M. (July 11, 1924.)

5. All applicants are required to furnish the Registrar of Clemson College not later than July 14, 1924, the prescribed certificates showing financial inability, and the application form showing school preparation. The applicant may not be considered

unless the above papers are received within the specified time.

6. The examination questions are prepared and the papers graded by the Clemson Faculty. The names of the applicants who pass the examinations and who are otherwise qualified are forwarded to the State Board of Public Welfare together with the certificates of financial inability. The State Board of Public Welfare then makes an investigation into the financial standing of the applicant, his parent or his guardian. The said Board reports its findings together with its recommendations to the Clemson College Board of Trustees. This Board makes a recommendation to the State Board of Education based upon the result of the examinations and the findings of the State Board of Public Welfare. The State Board of Education makes the final awards and hears appeals, as provided by law.

7. The applicant is tested by competitive examinations in agriculture, English, and mathematics.

8. The College has a right to reject any applicant who in respect to age (16 years at the time of entering), examinations, or in any other respect, fails to meet its requirements for admission.

9. The following are not eligible for scholarship appointments:

(a) A person who during the current year has won or holds a scholarship at another State institution.

(b) A person who has been in attendance at Clemson College or "any other institution of higher learning known as a college or university,"—provided however, that this condition shall not apply if there are no other eligible candidates for the scholarship.

(c) A person who has forfeited a scholarship at Clemson College or any other State institution by failure to maintain himself.

(d) A person, except the son of a minister of the gospel, who has not resided at least six months in the county in which he is applying for a scholarship.

10. No applicant shall be debarred from standing the examinations because he has failed to fill out the necessary certificate of financial inability as required by law. However, this certificate must be in the hands of the Registrar of Clemson College before the applicant can be considered eligible for a scholarship. (The blank certificate form can be obtained at any time from the Registrar of Clemson College, or from the County Superintendent of Education on the day of the examinations.) It must reach the Registrar not later than noon of July 14, otherwise the applicant will be eliminated from the competition.

11. If a scholarship vacancy shall occur, and the county to which it belongs has no eligible applicant, the Clemson Faculty may fill the vacancy by awarding the scholarship to some legally eligible applicant from another county. However, any such appoint-

ment shall not last longer than the current session.

12. No recommendations for scholarship awards to alternates will be made later than 30 days after the opening of the session.

The one hundred and seventy four-year scholarships provided in this institution by the Legislature are apportioned to the counties of the State according to law as follows:

Abbeville	3	Greenwood	4
Aiken	4	Hampton	2
Allendale	2	Horry	3
Anderson	7	Jasper	2
Bamberg	3	Kershaw	3
Barnwell	3	Lancaster	3
Beaufort	3	Laurens	4
Berkeley	3	Lee	3
Calhoun	2	Lexington	4
Charleston	9	Marion	3
Cherokee	3	Marlboro	4
Chester	3	McCormick	2
Chesterfield	3	Newberry	4
Clarendon	4	Oconee	3
Colleton	3	Orangeburg	6
Darlington	4	Pickens	3
Dillon	3	Richland	6
Dorchester	2	Saluda	3
Edgefield	3	Spartanburg	8
Fairfield	3	Sumter	4
Florence	4	Union	3
Georgetown	3	Williamsburg	4
Greenville	7	York	5

Note.—Scholarship students are credited at the beginning of each quarter with one-fourth of the value of the scholarship ($25.00). See fees and expenses for full information.

TWO-YEAR AGRICULTURAL SCHOLARSHIPS

The holders of these scholarships are required to take the Two-year Agricultural Course described elsewhere in this catalogue.

No financial certificate is required of applicants for these scholarships. The Act defining them is as follows:

"Sec. 1. **Beneficiary Scholarships for Clemson.**—There are hereby established and created fifty-one beneficiary agricultural scholarships in the Clemson Agricultural College of South Carolina, said scholarships to be of the value of one hundred dollars ($100) per annum, and free tuition, and to be awarded so that there shall be one scholarship to each county, and seven scholarships from the State at large.

"Sec. 2. **To Whom Open—Examinations.**—The said scholarships shall be open to any young man a native of South Carolina, eighteen (18) years old or over, who has spent not less than three (3) years in the active practice of farming, consideration being given to the need and worth of the applicant, and to his agricultural knowledge as shown by suitable examinations. All applicants shall stand such examinations as shall be prescribed by the proper authorities of the Clemson Agricultural College, and these examinations shall be held at the same time and in accordance with the general laws governing the examinations for other scholarship students.

"Sec. 3. **Board of Education to Appoint.**—The faculty of the said Clemson Agricultural College, or committee designated by the Board of Trustees for the purpose, shall recommend to the State Board of Education for appointment to the scholarships one of the young men who has successfully passed the examination and is otherwise qualified.

"Sec. 4. **How Scholarships To Be Paid For—Term of Scholarships.**—The said scholarships shall be paid from the income of the said Clemson Agricultural College as now provided by law, and each shall continue for a term not exceeding two years, or for such length of time as the beneficiary shall be able to maintain himself as a student of the college, and the said sum of one hundred dollars ($100) per annum shall be placed to the credit of each beneficiary and applied to the payment of his board and other necessary expenses.

THE HARMON FOUNDATION

The Harmon Foundation of 140 Nassau Street, New York City, has appropriated $1000.00 as a loan fund to assist worthy students for the session 1923-24, with the understanding that a similar appropriation will be made for the sessions 1924-25, 1925-26, 1926-27, and 1927-28. Only juniors and seniors, studying in a course leading to a degree, are beneficiaries of this fund, and only those students whose means of support are dependent in whole or in part on their own labor are considered. A maximum loan in any one year is $250.00.

The students sign installment contracts bearing interest at the rate of six per cent, payable at the rate of not less than ten dollars monthly, payments to begin one year after graduation. Contracts will be discounted at the rate of six per cent of the principal, if principal and interest are repaid within one year after graduation.

To insure the fund gainst losses, each borrowing student makes his contract for the amount of money borrowed plus a premium of 10%. He thus becomes responsible to this extent for the defaults in the payments of loans made to other students in his own college group receiving loans the same year. The premium is not used to augment the funds of the Foundation, and is not used for administrative expense. If there are losses, the losses will be deducted from the premium collected and the balance of the premium with 6% interest will be returned to the borrowers in proportion to the amount of money loaned and repaid.

If there are no losses in the group-operation the entire premium collected will be returned with interest.

William Wilson Finley Foundation of the Southern Railway.

The sum of $1,000.00 has been deposited with the College to be used as a loan fund and is available for young men living in counties traversed by the Southern Railway or the Blue Ridge Railway. The following conditions govern the use of this fund:

(a) That no help be extended to a student during his first year in College.

(b) That after he has been in College for one year, and during that time demonstrated not only his need, but his worth in character, studiousness and promise, the President of the College may at any time during the session loan to such needy student a sum not to exceed seventy-five dollars in any one session, provided the beneficiary is pursuing a regular agricultural course (two-year or four-year course), is a resident of a county traversed by the Southern Railway, or the Blue Ridge Railway, and does not hold a scholarship of any kind.

(c) That the student receiving this financial assistance shall give his note bearing 6 per cent. interest, payable one, two, or three years after completion of course. The loans of the first year shall be payable within one year after completion of the course, and any second and third loans shall be payable two and three years respectively after date of normal completion of the course.

At the discretion of the President the student may be required to furnish at least one endorsement from a financially responsible party, who may be the student's parent or guardian.

(d) The President shall at the close of each fiscal year, June 30, make a statement to the Clemson College Board of Trustees and to the President of the Southern Railway, giving full details as to the use and status of the Fund.

(e) Not more than one-fourth of the Fund shall be loaned in any one fiscal year.

George Cherry Foundation

Mrs. Mary Cherry Doyle of Oconee County has donated the sum of $1000.00 to be used as a loan fund to worthy and needy students from Oconee and the part of Anderson County including Pendleton. The purpose of the fund is to commemorate her father, the late George Cherry, whose old home is near the College.

The following conditions govern the use of this fund:

1. That after a student has been in college for one Semester, and during that time demonstrated his character, studiousness and promise, as well as his need for help, the President of the College may at any time thereafter during the session, lend to such student a sum not to exceed $100.00 during any one session; provided, that loans shall be made only to students who are pursuing regular two year or four year courses, and who are residents of Oconee County,

or of the territory within a radius of five miles of Pendleton Courthouse, and who do not hold other scholarships of any kind.

2. That the student receiving this financial assistance shall give his note bearing 6 percent. interest, payable one, two or three years after completion of course. The loans of the first year shall be payable within one year after completion of the course, and any second, third and fourth loans shall be payable two, three or four years respectively after date of normal completion of the course.

At the discretion of the President, the student may be required to furnish at least one endorsement from a financially responsible party, who may be the student's parent or guardian.

3. The President shall at the close of each fiscal year, June 30, make a statement to the Clemson College Board of Trustees, giving full details as to the use and status of the Fund, and this shall be published in the Oconee papers.

4. Not more than one-fifth of the Fund shall be loaned in any one fiscal year.

PART III.—STUDENT LIFE AND ACTIVITIES

LIVING CONDITIONS

At Clemson all undergraduate students live in barracks under military discipline. The College is located away from the distractions of city life while at the same time it possesses many of its advantages. A student cannot leave the campus without permission. He must at all times be present or accounted for.

The three barracks which house the students are steam heated and electrically lighted from the central power station located in rear of Barracks No. 2. Each building is provided with ample toilet facilities. In addition to the hot and cold water supplied to each of the barracks, running spring water is pumped to each floor for drinking.

The barracks or dormitories are divided into "halls" for military purposes, a unit being assigned to a hall under the supervision of a cadet officer. At night a cadet guard is maintained to insure order during study hours at which time the students are required to remain in their rooms.

Cadet officers remain on duty in the guard room both day and night. A long distance telephone with twenty-four hour service is located in the guard room.

Each student room is equipped with necessary furniture. The beds are single width. Bed linen, bed covers, pillows and towels must be furnished by the student.

The dining hall or mess hall is located in Barracks No. 1 and is under the supervision of the mess officer. The mess hall is well equipped with silverware, china, glassware, table linen, etc. The kitchen and cold storage plant is one of the very best in the South. All students living in the barracks eat in the mess hall.

RELIGIOUS INFLUENCES

Clemson co-operates to the fullest extent with the various churches and the Y. M. C. A. in the religious training of its students.

Four denominations, Baptist, Episcopal, Methodist, and Presbyterian have erected churches in the community. The college contributes liberally to the salaries of the resident ministers who do pastoral work among the students. All Protestant students are required to attend the Sunday morning services at one of the churches. Services for students of Roman Catholic faith are held frequently by a priest from one of the nearby towns.

Before beginning the day's work the faculty and students assemble in Chapel where brief devotional exercises are held by one of the local ministers. Attendance upon this service is required of all.

Sunday Schools and young peoples church societies are maintained by the local churches. Attendance upon these services is voluntary.

Eighty-six per cent of all students are members of some church.

The Young Men's Christian Association is housed in its own building. The "Y" has become the chief social gathering place and is the center of voluntary religious activity. During the current session approximately 600 students have been enrolled in voluntary Bible Study Classes. Two trained secretaries are employed by the Association.

YOUNG MEN'S CHRISTIAN ASSOCIATION

The Young Men's Christian Association has supervision of the voluntary religious activities, of the students and endeavors to serve the religious, social, and physical life of the college community in keeping with the general policies of the International Organization It is a democratic student society, advised by a board of faculty and business men, and administered by General and Assistant Secretaries who have no official connection with the college as disciplinarians or instructors.

There are ten divisions of its work, as follows: Bible Study, Mission Study, Community Service, Membership, Conference, Social, Religious Meetings, Church and Relationship, and Publicity. Each of these divisions is in charge of a student committee, and the genius of the organization lies in keeping these men active in behalf of the best interests and standards of the college and community. The chairmen of these several committees constitute the cabinet, which meets weekly for consultation and plans.

In 1922 a type of organization termed the Friendship Council was inaugurated which has for its object the promotion of Christian fellowship in barracks. The past year this organization was composed of more than 70 members. This organization is responsible for the organization of 15 daily Morning Watch or prayer groups in barracks having a daily attendance of around 200 students.

The Y. M. C. A. endeavors to enroll every man in Voluntary Bible Study, Mission Study and the study of Sex Hygiene. During the past year six hundred men were enrolled in Voluntary Bible Study Classes, almost 280 in Sex Hygeine, and over 500 in Mission Study. These classes are led by students and professors.

The Y. M. C. A. endeavors to see that every man in college learns to swim. Free lessons are given by the Secretaries and the members of the swimming team. Class and company basketball is under the auspices of the Y. M. C. A.

Concerts are given under the auspices of the Y. M. C. A., usually by artists from nearby towns. Many speakers of national reputation come to Clemson upon the invitation of the Y. M. C. A. Among the men invited during the past year are: "Ted" Mercer, H. H. Hadley, Dr. Swan, and Professor Carver.

CARE OF THE SICK

The Surgeon is one of the regular officers of the College, and his special duty is to look after the health of the students. He also has charge of the Hospital, and supervises all matters pertaining to the sanitation of barracks.

At a regular appointed time every day, students who so desire may consult the Surgeon, and those who are sick are cared for by experienced nurses in the College Hospital. In case of necessity students are allowed to consult the Surgeon at any time, or send for him, as may be required.

The Surgeon cannot undertake to notify parents every time a student reports to the Hospital for medicine, or for rest on account of some slight complaint. However, they may rest assured that they will be promptly notified of sickness of any consequence. In case of serious illness the Surgeon will telegraph them.

STUDENT PUBLICATIONS

The Clemson College Chronicle, a monthly magazine designed to encourage literary work among the students, is published jointly by the literary societies during the college session.

The Tiger, published weekly is devoted largely to athletics, Alumni and Local News.

The Annual, an illustrated volume, is published under the auspices of the senior class.

LITERARY SOCIETIES

Five literary societies, the Calhoun, the Columbian, the Palmetto the Carolina, the Hayne, and the Wade Hampton, furnish a valuable supplement to the work of the college. These societies afford facilities for practice in debate, oratory, declamation, and essay writing, and their members acquire valuable knowledge of parliamentary law and usage. The meetings are held weekly, on Friday evenings. An annual contest is also held by each society, at which there are debates, orations, and declamations by the students.

On these occasions a representative is chosen from each society to enter the contest for the Trustees' Medal at commencement. The societies themselves also award medals annually to the best debater, orator, and declaimer.

The societies occupy halls in the Academic Building, which are furnished with carpets and opera chairs and which are maintained entirely by the students. A small initiation fee is charged, and small yearly dues are collected to meet running expenses. All students are advised to join one of these societies.

State Oratorical Contest.—The societies also send a representative to the annual contests of the South Carolina Intercollegiate Oratorical Association, which includes the following institutions: Furman University, Wofford College, Clemson Agricultural College, Presbyterian College of South Carolina, Erskine College, Newberry College, South Carolina Military Academy, and the University of South Carolina.

LYCEUM COURSE

A Lyceum course, comprising about six numbers and employing some of the best talent on the American platform, is offered as a means of entertainment to students and others.

CLEMSON COLLEGE BRANCH OF THE AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

This organization is composed of instructors and students belonging to this national institution. This branch is maintained with the aim of acquainting the students with current engineering practice and problems.

STUDENT CHAPTER; AMERICAN SOCIETY OF MECHANICAL ENGINEERS

A local branch of this national society, composed of faculty members and of students pursuing mechanical engineering, is established at the college. Meetings are held periodically for the discussion of the latest enginering practices.

STUDENT CHAPTER: AMERICAN SOCIETY OF CIVIL ENGINEERS

Membership in this is limited to civil engineering students as follows: All seniors in good standing; the seven juniors having the highest class standing; and the one sophomore having the highest class standing.

Regular meetings are held monthly, and at such other times as exigencies favor. At these meetings engineering practice is presented and discussed; speakers from outside the college being obtained as often as practicable.

RESERVE OFFICERS' TRAINING CORPS

Under the provisions of the National Defense Act of June 3rd, 1916, the War Department has established at Clemson College an Infantry unit of the Reserve Officers' Training Corps (R. O. T. C.).

The purpose of the R. O. T. C. is set forth in Special Regulations 44, War Department, 1919, as follows:

1. The Reserve Officers' Training Corps is organized under authority of act of Congress of June 3, 1916, as amended by acts of Congress of September 8, 1916, and July 9, 1918. Extracts from these acts are contained in Appendix 1

2. The primary object of the Reserve Officers Training Corps is to provide systematic military training at civil educational institutions for the purpose of qualifying selected students of such institutions as reserve officers in the military forces of the United States It is intended to attain this object during the time that students are pursuing their general or professional studies with the least practicable interference with their civil careers, by employing methods designed to fit men, physically, mentally and morally, for pursuits of peace as well as pursuits of war. It is believed that such military training will aid greatly in the development of better citizens. It should be the aim of educational institutions to maintain one or more units of the Reserve Officers' Training Corps in order that in time of National emergency there may be instantly available a large number of educated men, physically efficient and trained in the fundamentals of military science and tactics and fitted to lead intelligently the units of the armies upon which the safety of the country will depend. The extent to which this object is accomplished will be the measure of the success of the Reserve Officers' Training Corps.

3. The Reserve Officers' Training Corps will enrich the educational resources of schools and colleges by contributing new problems, applications and equipment. This will not only vitalize the course of study but give to the student a training which will be as valuable to him in his industrial or professional career as it would be, should the Nation call upon him to act as a leader in its defensive forces.

Moreover, the wide variety of work recognized and accepted by the War Department as of intrinsic value for military purposes should leave on the mind of the student an indelible impression of the extent to which the modern Army is the nation in arms. Commerce industry, agriculture and all the professions have each their contribution to make to the military organization.

4. A military unit is largely dependent for its efficiency upon the physical fitness of the individuals composing it. Physical training, therefore, will form an essential part of the military instruction. It will be the policy to encourage and support the physical training given by civilian teachers, thus cooperating with all other effective agencies in an effort to promote a more vigorous American manhood.

5. a. The policy adopted by the War Department to carry out the provisions of the act of Congress of June 3, 1916, is a matter of vital importance to every citizen interested in the educational system of our country and the development of American youth. It will aim to give all students of the Reserve Officers' Training Corps

a thorough physical training, to inculcate in them a respect for all lawful authority, to teach the fundamentals of the military profession, leadership, and the special knowledge required to enable them to serve efficiently in the various branches of the military service.

b. The War Department aims to establish in selected civil educational institutions a system of training which will tend towards making better citizens and furnish a means whereby the graduates of such institutions can function more advantageously to the best interests of the nation in time of military necessity.

Requirements

All students at the college are required to take a minimum of three hours per week of military training. Members of the Freshman and Sophomore classes who are more than 16 years of age and who pass the physical examination must take the Basic Course as laid down by the War Department, and set forth under the heading "Military Department" in the detailed description of the course.

A Junior and Senior student may continue in the Basic Course or by conforming to the following rules may enter the Advanced Course:

1. He must have completed the Basic Course.
2. He must be recommended by the President of the college and the Professor of Military Science and Tactics.
3. He must agree in writing to continue the course during the remainder of his time in college, devoting not less than five hours per week to the subject, and to attend the one summer camp prescribed by the War Department.

Students taking the Basic Course in their Freshman and Sophomore years are furnished one uniform each year, or commutation at a rate prescribed by the War Department. Members of the upper classes continuing in the Basic Course are not considered members of the R. O. T. C. and are not entitled to the uniform or commutation therefor. Freshmen or sophomores and special or short course students who are not physically qualified for the R. O. T. C. and members of these classes who for other reason do not enter the R. O. T. C. are not entitled to uniforms or commutation thereof.

At present rates the Government commutation for uniforms next session would be $6.00 for the session for sophomores and seniors and $30.00 for the session to freshmen and juniors. These figures cannot be guaranteed as they are fixed each session by the War Department.

Those taking the advanced course are entitled to this uniform or commutation therefor. and in addition, to an allowance for subsistence, (thirty cents per day at present), during the remainder of their course at college including the vacation between their Junior and Senior years. During the time in camp they are given the ration instead of commutation for subsistence, and at present are paid seventy cents per day.

Summer Camps

As noted above under head of "Requirements," every one taking the advanced course must take, under Army supervision and at Government expense, one period of camp training of about six weeks duration.

Transportation to and from the camps, subsistence while in attendance, and a uniform for camp use will be furnished.

Obligations

The only obligation incurred by the student taking the Basic Course is to take proper care of the uniform issued to him.

No obligations are imposed on those in the Advanced Course except as set forth in the contract and noted above, namely—

(a) To continue in it to completion unless sooner discharged by competent authorities.

(b) To attend one summer camp.

After Graduation—Commission in O. R. C.

After completion of the college course and attending the period of camp training the student is released from any further service under his contract with the United States. But if he so desires, and is recommended by his instructors, he may apply for a commission in the Officers' Reserve Corps (O. R. C.). These commissions are issued for periods of five years. If his application is approved and the President of the United States will commission him, he may be required to report for instruction for a period not to exceed fifteen days in any one year, at Government expense, and under the salary of his grade. During this period of five years he may be called into active service only in case of actual or threatened hostilities, and then with the rank he holds in the Reserve,—Second Lieutenant or higher.

Appointment as Temporary Second Lieutenant in Regular Army.

Upon application, the President of the United States is authorized to appoint any Reserve Officer as a Temporary Second Lieutenant in the U. S. Army, and assign him to duty with the army for a period of six months. During this service he will receive $100 per month salary and the allowances of a Second Lieutenant. At the end of the period of instruction he reverts to his status as a Reserve Officer.

ATHLETICS

It is the policy of the College to sanction and encourage athletics so long as it does not interfere with studies and other duties. Football, baseball, basketball, and track are the most popular sports, and it is assumed that parents are willing for their sons to participate in these games unless the President is definitely notified to the contrary. The athletic teams are permitted to take a few trips each season, usually on Saturday, to play intercollegiate games. The college is a member of the Southern Intercollegiate Conference (S. I. C.). the Southern Intercollegiate Athletic Association (S. I. A. A.), and of the South Carolina Intercollegiate Athletic Association (S. C. I. A. A.).

Athletic Council.—The Athletic Associations to which the college belongs have placed the athletic interests at each college under the supervision of an athletic council, consisting of members of the Faculty, the Alumni and the student body.

The Council consists of thirteen members—four student members elected by the student body; three members of the Faculty—two elected by the students and one by the Alumni; four members of the Faculty (one of whom shall be the Director of Student Activities) appointed by the President; and two alumni members appointed by the Alumni Association.

A member of the Faculty, known as the Director of Student Affairs, has the final authority in all lines of student activities in so far as their relation to college rules are concerned.

Intercollegiate Athletics.—For the regulation of intercollegiate athletics, the Faculty has adopted the following rules:

1. No student who has a class mark lower than P in more than eight hours of work in any one term shall be allowed during the ensuing term to take part in any intercollegiate contest. Demerits shall be considered in the record, and more than forty demerits shall count as a failure in two hours of class work. Changing from one course to another, or from a regular to an irregular course, shall not interfere with the operation of this rule.

At the end of each grading period, the Faculty Athletic Commitee will canvass the record of athletes, and if any are found to be so deficient as to endanger their scholastic standing, they will be withdrawn from the squad.

2. Absences from College.—The football team shall be allowed a maximum of ten days absence from the campus during the session for games away from the college. The baseball team shall be allowed a maximum of ten days; the band shall be allowed a maximum of seven days; the track team and the basketball team ten days. The tennis team, glee club, or any other organization hereafter sanctioned, shall be allowed a maximum of six days absence during each session. Saturday afternoon, Sunday, and holidays shall not count as days. No one contestant or representative shall be allowed to leave the campus for more than twenty days during the session, except at the discretion of the Faculty Athletic Committee.

3. No member of an athletic team shall be eligible for a managerial position in any other branch of sport.

4. No team shall be allowed to leave the college grounds to participate in any match games unless accompanied by a member of the Faculty, who shall be responsible to the Faculty for the conduct of the players and coaches while away from the college. Such representative shall be appointed by the chairman of the Faculty Athletic Committee, and his expenses shall be included in the expenses of the trip, provided that when any team, except the football team, leaves the college grounds, the chairman, at his discretion, may appoint a player or a manager in place of a member of the Faculty.

5. No student shall be eligible to participate in an intercollegiate contest who is away from the college without proper authority, or without having complied with all the rules or orders issued by the Commandant regarding such matters.

6. It shall be the duty of the Faculty Athletic Committee to see that the foregoing rules and regulations are strictly enforced.

CADET EXCHANGE

The college maintains a book and supply store known as the Cadet Exchange where students may purchase text-books, drawing instruments and other student supplies at reduced prices. A complete list of the text-books used in each course with the prices of same will be furnished on application.

PART IV.—ORGANIZATION AND GOVERNMENT

ORGANIZATION OF THE COLLEGE

By Departments and Divisions

1. **Agricultural Department**
   - Teaching
   - Research
   - Extension

   Agronomy
   Geology and Mineralogy
   Horticulture
   Veterinary Science
   Zoology and Entomology
   Dairying
   Animal Husbandry
   Botany and Bacteriology
   Rural Sociology
   Education.

2. **Engineering Department**
   Mechanical Engineering
   Electrical Engineering
   Civil Engineering
   Architecture and Drawing
   Forge and Foundry
   Machine Shop
   Wood Shop

3. **Chemical Department**
   Chemistry
   Chemical Analysis (Public State Work)

4. **Textile Department**
   Textile Chemistry and Dyeing
   Weaving and Designing
   Industrial Education
   Carding and Spinning

5. **Academic Department**
   English
   History
   Mathematics
   Physics
   Economics and Sociology

6. **Military Department**
   Military Instruction
   Military Discipline

7. **Student Affairs**
   Cadet Funds
   Student Activities

8. **Miscellaneous**
   President's Office
   Treasurer's Office
   Library
   Roads and Campus
   Heat, Light, and Water
   Construction and Repair
   Museum

COLLEGE ORGANIZATION AND GOVERNMENT

Board of Trustees. The government of the college is vested in a Board of thirteen members, six of whom are elected by the Legislature and seven life and self perpetuating under the Clemson will. The function of this Board is legislative and not executive. The Board determines the general policy of the college, makes the laws for its government, and directs the expenditure of its funds.

The President is the chief executive and administrative officer of the Board of Trustees. He is the head of the college and is responsible for its satisfactory working and success.

The College is divided into seven departments, namely, Agricultural, Engineering, Chemical, Academic, Textile, Military, and Student Affairs. A Director is at the head of each department and is responsible to the President for its conduct and success. The departments comprise the various divisions indicated on the preceding page. Each division is in charge of a professor who acts as chief of the division. The President conducts all official business with each department through its Director.

The Faculty consists of all officers of instruction in the college. The voting members are the Directors, Professors, Associate Professors, and Assistant Professors.

The faculty meets at least once a month, or whenever called by the President, and is an advisory body to the President, on the instructional work of the college and on such other business as he may bring before it.

Faculty Committees. In order to aid him in his executive duties and to carry on the instructional work of the college, the President appoints committees from the Faculty. To these are assigned certain specified lines of work and the committees are clothed with full authority.

Student Activities.—The Department of Student Affairs embraces all those interests supported by the cadets, and all student activities except the Y. M. C. A. It is the aim of the college to assist in every possible way in making these interests helpful to the student body as a whole. The Director of Student Affairs is in charge of all such activities.

The Discipline Committee.—The Discipline Committe is composed of six directors of departments and two full professors elected annually by the Board of Trustees. This committee constitutes the court of the college and tries cadets charged with serious offences under the regulations. The President is the reviewing authority of the Discipline Committee, and may at his discretion set aside or modify the sentences imposed. A parent, or a cadet over age, has the right to appeal from the sentence of the Discipline Committee to the Board of Trustees, provided the appeal is lodged with the President of the College within thirty days. This appeal must be forwarded to the President of the Board of Trustees, who if he deems the appeal meritorious, shall present it at the next regular or called meeting of the Board.

All trials by the Discipline Committee are open to the public, and all testimony is taken under oath and recorded stenographically as in a civil court. A student on trial may have some member of the faculty to assist him in his defense if he so desires.

CADET MILITARY ORGANIZATION AND GOVERNMENT

Clemson College is operated on a strict military basis,—not for the purpose of making soldiers, but in order that the students may learn important life-lessons of obedience to authority, punctuality, system, courtesy and loyalty. The military system insures proper exercise and physical development, guarantees to the parent that the student shall at all times be present at the college, or away by proper authority, insures attendance upon classes and other duties, and insures proper provision for study as well as for recreation.

The military system places every student on the same basis. All students must dress alike, eat at the same table, live under the same conditions, and be subject to the same privileges and the same restraints. No distinction whatever is made because of wealth or social position or any other such consideration. The only distinguished men in a cadet corps are those who achieve the distinction by being able to do some one thing better than their fellow students.

The military system does not in any way interfere with the regular college work, and on the other hand enables this to be carried on at the highest efficiency. It is the military training more than any other single feature that gives to Clemson's graduates an advantage which is an impartant factor in their future progress and success.

The President.—The President of the College shall have the general command and government of the Institution, watching over its administration, discipline and instruction. He shall have authority to make rules, from time to time, governing the granting of permits and furloughs to cadets; to inspect anything in a cadet's room or personal bagage; to suspend or modify these regulations, or to publish special regulations when he considers it necessary, which shall have the authority of the Board of Trustees until they shall act on the same. He shall prescribe the hours of study, drill and recreation.

Commandant.—The Commandant of Cadets, under the President, Cadets in all that pertains to its organization, drill, military police, discipline and administration. He shall prescribe the order in which the furniture, bedding, books, clothing, equipment, etc., shall be arranged throughout the barracks and shall make a thorough inspection of the rooms, furniture, arms, equipment and uniforms of the cadets at least once each week. He shall have the right to inspect anything in a cadet's room or personal baggage. He shall perform such other duties as are prescribed in these regulations. He shall have the rank of Colonel.

Assistant Commandants.—The Assistant Commandants shall perform such duties as may be prescribed for them by the President or Commandant. They shall have the rank of Lieutenant Colonel

Military Instruction.—All students, excepting Post Graduates, must take a minimum of three hours military instruction per week. All who pass the required physical examination must take the Basic Course prescribed by the War Department for the R. O. T. C. during their Freshman and Sophomore years.

Members of the Junior and Senior classes are selected by the Professor of Military Science and Tactics, subject to the approval of the President, to take the Advanced Course prescribed for the R. O. T. C., receiving certain financial benefits allowed by the Federal Government.

Cadet Officers And Non-commissioned Officers—The Cadet Officers and Non-commissioned Officers are appointed by the Commandant, subject to the approval of the President. When practicable they shall be appointed from members of the R. O. T. C. who have been most studious and soldier-like in the performance of their duties and most exemplary in their conduct. No cadet may decline any office to which he may be appointed.

As a rule the Officers shall be appointed from the Senior class, the Non-commissioned Officers except Corporals from the Junior class, and the Corporals from the Sophomore class.

Study Hours.—Study hours are those parts of the day when cadets are required to study and shall be prescribed in orders.

Chapel and Church.—All students are required to attend Chapel Services, except on Saturday and Sunday. All students except Catholics and Jews are required to attend Divine Services at one of the local churches on Sunday mornings.

Furloughs and Passes—Any cadet who has been granted a furlough or pass and who stays over the time stipulated unless for sickness or other good and valid reasons acceptable to the Commandant, will lose his place in the college, and will be required to file a new application for admission, and pay a fee of $5.00 before being allowed to rematriculate. In case he has been sick a certificate from the attending physician must be submitted, and no such certificates will be accepted unless the President or Commandant has been notified in advance of the date the cadet is due to return.

The Commandant may, at his discretion, in lieu of rematriculation and payment of fee, punish the cadet by arrest, extras etc., according to the nature of his offense, the punishment not to exceed one month's arrest, 20 demerits and 20 extras. All cadets returning late on furlough or pass are placed in room arrest pending an investigation of the reason for their late return.

All communications from parents requesting furloughs for their sons must be addressed or sent directly to " The Commandant" or to "The President,." and must set forth fully the reason for the request. No furloughs will be granted unless the reasons given are considered satisfactory and sufficient justification for any loss of time for absence from classes or other duties. Telegrams which do not explain fully will not be accepted as complying with the above rules. In any case in which business is given as a reason the nature of the business must be explained fully.

A parent has the right to demand a discharge from college at any time and for any reason but the college authorities reserve the right to grant or refuse to grant furloughs.

Week End Leaves.—Week end leaves will be granted only to cadets who have attained to a prescribed standard in class work and discipline.

Hazing.—Hazing is positively forbidden. Any cadet proven guilty of hazing in any form whatever will be dismissed from the college. Every cadet entering college will be required to sign a pledge agreeing to certain conditions in this connection.

Demerits.—Demerits are awarded for every unremoved report, the number depending on the nature and degree of the offense. Any cadet receiving eight-five demerits during any one semester or a total of one hundred and fifty demerits during the session shall be required to withdraw from college.

Discharge.—No cadet unless twenty-one years of age and paying his own way at college shall be discharged except on the written application of his parents or guardian addressed to the President or the Commandant, or for reasons satisfactory to the President.

Failure to Pay Dues.—The President may require a cadet to withdraw from college if after due and reasonable notice his dues to the college are not paid.

Text Books.—Each student will be required to own his own text books and necessary equipment, except in the case of brothers in the same class who occupy the same room.

All cadets shall submit their text books and other equipment for inspection at such times as are ordered.

Day Cadets.—All cadets shall live in the barracks, except those who live with their parents or relatives near enough to attend from their homes. Those so living at home shall be known as "Day Cadets." All will be required to live in the baracks at least six months of the freshman or sophomore year as may be directed by the President. No cadet will be given a Bachelor's Degree unless he shall have lived at least two-thirds of one session in barracks. Day cadets are subject to the Cadet Regulations.

Motor Vehicles.—No cadet or day cadet shall own or operate as his own any automobile or motorcycle during the regular session of the college.

PART V.—REQUIREMENTS FOR DEGREES—COURSES OF STUDY.

FACULTY RULES

Grades and Examinations 1. The semester hour shall be the basis of all credits. One recitation hour or two laboratory or shop hours per week for one semester shall constitute a semester hour.

2. Reports of standing in class shall be made by all instructors through the Director to the Registrar at the middle and at the end of each semester. These reports shall be based on daily recitations and such tests as may be required.

3. Written examination shall be required in all subjects at the end of each semester, except in certain laboratory or practical courses where not deemed necessary by the departmental faculty.

4. A semester grade once reported to the Registrar shall be the final grade for the period covered.

5. Separate grades shall be given on theoretical and practical work except where in the judgment of the departmental faculty separate grades are not practical.

6. No semester grade shall be given out until the close of the examination period for that class.

7. A student who for reasons satisfactory to the Faculty is absent from any of his semester examinations, will be allowed to make up these examinations during the following semester at the convenience of the instructor.

8. All work missed on account of absences from class must be made up to the satisfaction of the instructor.

9. When an instructor completes a subject he may hold an examination on it before beginning the next subject, provided such examination does not conflict with the regularly scheduled work .

10. The grading system shall be as follows:

E—Excellent
S—Satisfactory
P—Passable
D—Conditioned. (Deficient on work, either class or examination, which in the opinion of the instructor may be made up by a re-examination)
F—Failed. (Deficient on work, either class or examination which in the opinion of the instructor must be taken over in class)
I —Incomplete record due to absence or other causes.
?'—Symbol to be used in Registrar's office to denote a missing grade.

Conditions and Failures 11. A student who has made grades of D or F on more than 9 credit hours of work at the end of the first semester or more than 18 credit hours at the end of the session shall be required to withdraw from college.

12. Ten credit hours of conditions may be removed during a regular make-up period and eight credit hours of failures taken over at an approved summer school or during the regular session.

13. All conditions, except for seniors, must be removed during the make-up period preceding the opening of the regular session in September. Only one re-examination will be permitted. All conditions or incomplete grades (D, I) not removed by the first class day of the first semester shall become failures and must be taken over as such. Seniors may remove conditions during the week preceding commencement.

14. All failures or take-over work shall be scheduled first and a continuation subject in the next higher class shall not be scheduled until credit has been received for its prerequisites. All take-over work must be scheduled within ten days after the beginning of a semester and not more than five actual clock hours may be scheduled in addition to the published curriculum.

15. A student who has failed in a subject cannot receive credit for that subject until it has been repeated hour for hour in class, except that in the case of correlated laboratory work, the number of hours to be taken shall be determined by the instructor. Where separate grades for class and laboratory work are given the subject shall be repeated in full.

16. A student who schedules subjects in addition to the regular curriculum and fails to pass on any work at the end of the first mid-semester, shall drop the additional work.

17. A student who has take-over work in addition to the required hours and fails to pass on any work at the end of the first mid-semester shall drop a sufficient number of hours of the regular advanced subjects to reduce his scheduled hours to the required minimum.

18. A senior who fails to graduate because of either one D or one F on any subject shall have an opportunity of removing it by examination during the make-up period in September, provided the cadet can furnish evidence of having done satisfactory study. Failing to do this he shall take the subject over with the next class. In either case, the degree will not be awarded until the following commencement.

Requirements for Grduation 19. The completion of as many credit hours as are listed in the description of courses in the catalogue shall be required for a degree. All work must be completed by 5 P. M. on the Saturday preceding commencement.

20. Residence of at least one regular session shall be required for graduation.

Classification 21. In general, students will be classified with the class in which they are taking the majority of their credit hours.

22. A student taking an irregular or special course must schedule as many as 12 credit hours.

Change of Course 23. No change in course will be permitted after the first thirty days of a session.

Honors and Medals 24. The names of all cadets who at the end of each semester have no failures, no work to make up, and not more than 30 demerits, shall be published and a notice sent to their parents.

25. The Norris Medal shall be awarded to that graduate who shall deserve the same because of meritorious conduct and scholarship. His scholarship shall be determined by the average semester marks for the last three years of his college course.

Miscellaneous 26. Each student shall be required to own his individual text books and the necessary equipment except in the case of brothers in the same class who room together.

27. All requests from the students to the faculty must be made in writing.

MEDALS AND HONORS

Honorable Mention.—Students who at the end of a semester have no failures, no work to make up, and not over thirty demerits will have their names publicly announced, printed in "The Tiger," and notification sent to their parents.

Trustees' Medal.—The Board of Trustees has established a gold medal, to be awarded annually to the best speaker among the representatives of the literary societies at Commencement. These representatives are chosen by judges selected by the societies at the annual public exercises in Memorial Hall. The medal is awarded by judges selected by the Faculty. (The medal was won in 1923 by Cadet Marcel V. Martin of Paris, France).

Norris Medal. The following is from the will of Hon. D. K. Norris, a life trustee of Clemson, who died in 1905:

"I give $500 face value, Norris Cotton Mill stock, to the Trustees of Clemson Agricultural College of South Carolina, on condition the dividend thereon shall be applied annually to the purchase of a gold medal, to be known as the 'Norris Medal,' to be awarded to the student of Clemson meriting the same at graduation, under such rules and conditions as may be perscribed by the said Board of Trustees, and which medal shall have engraved on it 'Honos habet onus' (Honor brings responsibility)."

In 1923 the medal was awarded to H. A. Woodle of Greenwood County.

R. W. Simpson Medal. A medal designated as the "R. W. Simpson Medal" is awarded annually to the best drilled cadet in the freshman, sophomore, or junior class. In 1923 the medal was awarded to C. N. Wilden of Sumter County.

Literary Society Medals.—It is customary for the several literary societies to hold annual contests during the session. Gold medals are usually awarded to the best debaters, orators and declaimers.

The Chronicle Medals.—The Chronicle, the monthly magazine published by the literary societies, also usually awards three gold medals, for the best story, the best poem, and the best essay contributed by students during the year.

Farmers' Certificates of Merit,—Beginning with the session of 1914-1915 certificates of merit have been awarded each session to two farmers in South Carolina who have rendered distinguished services in the agricultural development of the state.

In 1923 the certificates were awarded to Mr. Bright Williamson, Darlington, S. C., and Mr. T. C. Moss, St. Matthews, S. C.

DEGREES, DIPLOMAS, AND CERTIFICATES

The degree of **Bachelor of Science** is awarded to those students who satisfactorily complete one of the four-year curricula. The course completed is specified on each .diploma.

All work for a degree must be completed by 5 P. M. on the Saturday preceeding commencement. Residence of at least one regular session is required for graduation. Diplomas are delivered to the candidates on Commencement Day.

Every candidate for a degree must pay to the Treasurer of the College prior to graduation the cost of the diploma.

The degree of **Master of Science** is for the present offered to candidates majoring in Education. The enroll for graduate work the student must be a graduate of an approved college or university.

Certificates.—Students who satisfactorily complete one of the two-year short courses are given certificates.

COURSES OF STUDY

The College offers the following courses of study:

AGRICULTURE

(a) Four-year courses in Agriculture with major work in Agronomy, Animal Husbandry, Chemistry, Dairying, Education, Entomology and Horticulture.
(b) Two-Year Course in Agriculture.

CHEMISTRY

(a) Four-year course in Chemistry.

ENGINEERING

(a) Four-year course in Architecture.
(b) Four-year course in Civil Engineering.
(c) Four-year course in Electrical Engineering.
(d) Four-year course in Mechanical Engineering.

TEXTILE

(a) Four-year course in Textile Engineering.
(b) Four-year course in Industrial Education.
(c) Two-year course in Textile Industry.

GENERAL SCIENCE

(a) Four-year course in General Science
(b) Pre-Medical Course.

SUMMER SCHOOL

Short courses are offered during the months of June and July to teachers, cotton graders, agricultural club boys, candidates for admission to college, and college students with work to make-up.

(EXPLANATION—In the curricula which follow the first column of figures represent the number of semester hours of credit assigned to each subject, The two figures in parentheses are the actual number of hours per week spent in class and laboratory respectively.

All students who are candidates for the Bachelor's Drgrees are required to take military drill three hours per week. In the junior year the R. O. T. C. students take in addition two hours of class work in Military Science, while the non-R. O. T. C. take Business Law the first semester and Meterology the second semester.

(The R. O. T. C. seniors take also the two hours of Mliitary Science and the non-R. O. T. C. take Psychology.)

I.—AGRICULTURE

The course in Agriculture, supplemented by work in Mathematics, English, Political Economy, Rural Sociology, History, and the Natural Sciences, allows no differentiation during the first and second years. Its object is to give the student a broad, general knowledge of the subject so that he will have a sound foundation for specialization during his Junior and Senior years. At the end of the Sophomore year it is expected that he will be able to choose intelligently which line of agricultural work he desires to follow.

In the Junior year a student is given the choice of four general branches of Agriculture. He may select one of the following groups: Animal Industry, Plant Industry, Agricultural Chemistry, and Agricultural Education. At the beginning of the Senior year, the student who as a Junior selected the Animal Industry group will major either in Animal Husbandry or in Dairying. The student who as a Junior selected Plant Industry, will major in either Agronomy, Horticulture, or Entomology. The student who selected Chemistry will continue his chemical work, and the student who selected Agricultural Education will continue the study of this subject. A major course requires six hours per week of recitations, and six hours per week of laboratory each semester. In addition to the major work during the Senior year, a sufficient number of elective courses must be selected to bring the number of semester credit hours up to 18. A minimum of 18 semester credit hours is required. No student can elect over 20 semester credit hours without special permission of the faculty. In calculating semester credit hours, two hours of laboratory count as one hour of theoretical.

COURSE I.—AGRICULTURE

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 1	3	(3,0)	Mathematics 2	3	(3,0)
English 1	3	(3,0)	English 2	3	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Chemistry 1	5	(4,2)	Chemistry 2	4	(3,2)
Biology—Botany 1	3	(2,2)	Biology—Botany 2	3	(2,2)
Drawing 1 and Shop 5	2	(0,4)	Drawing 8 and Shop 6	2	(0,4)
Military Science 1	1.5	(0,3)	Military Science 2	1.5	(0,3)
	20.5			19.5	

SOPHOMORE YEAR

English 3	3	(3,0)	English 4	3	(3,0)
Physics 3	3	(2,2)	Physics 4	3	(2,2)
Geology 1	3	(3,0)	Geology 2	1	(0,2)
Morphology—Botany 5	3	(2,2)	Zoology 2	4	(3,2)
Forestry—Botany 3	2	(2,0)	Animal Husbandry 2	4	(3,2)
Corn and Cotton—Agron. 1	4	(3,2)	Farm Machy.—Agron. 2	4	(3,2)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0,3)
	19.5			20.5	

JUNIOR YEAR

English 5	2	(2,0)	English 6	2	(2,0)
Agric. Chemistry 13	2	(2,0)	Agric. Chemistry 14	2	(2,0)
Bacteriology 1	4	(2,4)	Dairy Husbandry 2	3	(2,2)
F. Management—Agron. 3	3	(2,2)	Soils—Agron. 4	4	(3,2)
Horticulture 1	3	(2,2)	Horticulture 2	2	(1,2)
Military Science 5	3.5	(2,3)	Military Science 6	3.5	(2,3)
Electives	3		Electives	4	
	20.5			20.5	

Junior Elective Subjects.

(Choose one group)

Group A—Animal Industry

Prin. Feeding—Ani. Husb. 3	3	(2,2)	Veterinary Science 2	3	(2,2)
			Judging—Dairy H. 4	1	(0,2)
			Animal Husbandry 8a	1	(0,2)

Group B—Plant Industry

Entomology 3	3	(2,2)	Plant Phys.—Botany 6	4	(2,4)

Group C—Chemistry

Organic Chemistry 5	2	(2,2)	Organic Chemistry 6	3	(2,2)
Quant. Analysis—Chem. 3a	1	(0,2)	Quant. Analysis—Chem. 4	1	(0,2)

Group D—Education.

Education 1	3	(3,0)	Psychology—Ed. 5	3	(2,2)

SENIOR YEAR

At the beginning of the senior year the student is required to select one of the following major groups and in addition a sufficient number of electives from its accompanying list to make not less than 18 or more than 20 semester credit hours for each semester.

The student must schedule during the first semester either Political Economy 1, or Rural Sociology 1, as one of the electives.

Agronomy Major—1

First Semester			Second Semester		
Genetics—Agron. 5	3	(2,2)	Plant Breed.—Agron. 6	3	(2,2)
Crops—Agron. 9	3	(2,2)	Crops—Agron. 10	3	(2,2)
Forage Crops—Agron. 7	3	(2,2)	Fertilizers—Agron. 12	3	(2,2)
Military Drill 7	1.5	(0,3)	Military Drill 8	1.5	(0,3)

Agronomy Electives.

Drainage—Agron. 13	3	(2,2)	F. Equipment—Agron. 14	3	(2,2)
Marketing—Agron. 17	3	(2,2)	F. Management—Agron. 16.	3	(2,2)
Entomology 3	3	(2,2)	Plant Path. Botany 8	3	(2,2)
English 7	2	(2,0)	English 8	2	(2,0)
Education 5	3	(2,2)	Education 16	3	(3,0)
Education 7	4	(3,2)	Rural Sociology 2	3	(2,2)
R. O. T. C.—Advanced 7	2	(2,0)	R. O. T. C. Advanced 8	2	(2,0)

Animal Husbandry Major—2

Feeds -Ani.Husb. 5	3	(2,2)	Beef Production—A. H. 6.	3	(2,2)
Animal Production—A. H. 7	3	(2,2)	Pork Production—A. H. 8	3	(2,2)
Judging—Ani. Husb. 9	3	(2,2)	Breeding—Ani. Husb. 4	3	(2,2)
Military Drill 7	1.5	(0,3)	Military Drill 8	1.5	(0,3)

Animal Husbandry Electives

Veterinary Science 3	3	(2,2)	F. Management—Agron. 16	3	(2,2)
Marketing—Agron. 17	3	(2,2)	English 8	2	(2,0)
English 7	2	(2,0)	Rural Sociology 2	3	(2,2)
Forage Crops—Agron. 7	3	(2,2)	Education 16	3	(3,0)
Genetics—Agron. 5	3	(2,2)	Fertilizers—Agron. 12	3	(2,2)
Education 5	3	(2,2)			
Education 7	4	(3,2)			
R. O. T. C.—Advanced 7	2	(2,0)	R. O. T. C.—Advanced 8	2	(2,0)

Chemistry Major—3

Industrial Chemistry 23	2	(2,0)	Industrial Chemistry 24	2	(2,0)
Hist. of Chemistry 17	2	(2,0)	Stoichiometry Chem. 18	2	(2,0)
Inorg. Chemistry 21	2	(2,0)	Inorg. Chemistry 22	2	(2,0)
Tech. Analysis Chem. 23	3	(0,6)	Thesis Chem. 24	3	(0,6)
Military Drill 7	1.5	(0,3)	Military Drill 8	1.5	(0,3)

Chemistry Electives

Mineralogy 7	3	(2,2)	Mineralogy 8	3	(2,2)
English 7	2	(2,0)	English 8	2	(2,0)
			Rural Sociology 2	3	(2,2)
			Fertilizers—Agron. 12	3	(2,2)
			Bacteriology 4	4	(2,4)
R. O. T. C. 7	2	(2,0)	R. O. T. C. 8	2	(2,0)

Dairy Husbandry Major—4

First Semester			Second Semester		
Dairy Mfg.—Dairy Husb. 5	3	(2,2)	Dairy Mfg.—Dairy Husb. 6	4	(2,4)
Creamery Org.—D. Husb. 7	3	(3,0)	Dairy Farm.—Dairy Husb 12	3	(2,2)
Feeds—Dairy Husb. 9	3	(2,2)	Breeding—Dairy Husb. 10	2	(1,2)
Military Drill 7	1.5	(0,3)	Military Drill 8	1.5	(0,3)

Dairy Husbandry Electives.

Veterinary Science 3	3	(2,2)	Rural Sociology 2	3	(2,2)
Forage Crops—Agron. 7	3	(2,2)	Bacteriology 2	4	(2,4)
Genetics—Agron. 5	3	(2,2)	English 8	2	(2,0)
English 7	2	(2,0)	Pork Production—A. H. 8	3	(2,2)
Education 5	3	(2,2)	Education 16	3	(3,0)
Education 7	4	(3,2)			
R. O. T. C.—Advanced 7	2	(2,0)	R. O. T. C.—Advanced 8	2	(2,0)

Education Major—5

Prin. Teaching—Ed. 7	4	(3,2)	Spec. Methods—Ed. 8	4	(3,2)
Military Drill 7	1.5	(0,3)	Prat. Teaching—Ed. 14	3	( )
			Military Drill 8	1.5	(0,3)

Education Electives.

Genetics—Agron. 5	3	(2,2)	F. Management—Agron. 16	3	(2,2)
English 7	2	(2,0)	English 8	2	(2,0)
Marketing—Agron. 17	3	(2,2)	Plant Phys.—Botany 6	4	(2,4)
Forage Crops—Agron. 7	3	(2,2)	Olericulture—Hort. 8	3	(2,2)
Field Crop Insects—Ent. 5	3	(2,2)	Plant Path.—Botany 8	3	(2,2)
Farm Shop—Agron. 15	2	(1,2)	Pork Produc.—Ani. Husb. 8	3	(2,2)
Prin. Feeding—Ani. Husb. 3	3	(2,2)	Farm Equip.—Agron. 14	3	(2,2)
R. O. T. C.—Advanced 7	2	(2,0)	Rural Sociology 2	3	(2,2)
			R. O. T. C. Advanced 8	2	(2,0)

Entomology Major—6

F. Crop Insects—Ent. 5	3	(2,2)	T. Crop Insects—Ent. 10	3	(2,2)
Stored Prod. Insects—Ent. 7	3	(2,2)	Orchard Insects—Ent. 12	3	(2,2)
Medical Entomology 9	3	(2,2)	Apiculture—Ent. 14	2	(2,0)
Military Drill 7	1.5	(0,3)	Military Drill 8	1.5	(0,3)

Entomology Electives.

English 7	2	(2,0)	Quarantine Meth.—Ent. 16	3	(2,2)
Education 5	3	(2,2)	English 8	2	(2,0)
Education 7	4	(3,2)	Meteorology—Geology 10	2	(2,0)
Pomology—Hort. 3	3	(2,2)	Education 16	3	(3,0)
			Pomology—Hort. 4	3	(2,2)
			F. Equipment—Agron. 14	3	(2,2)
			Plant Path.—Botany 8	3	(2,2)
			Rural Sociology 2	3	(2,2)
			Anatomy—Ent. 18	2	(2,0)
R. O. T. C.—Advanced 8	2	(2,0)	R. O. T. C.—Advanced 8	2	(2,0)

Horticulture Major—7

Pomology—Hort. 3	3	(2,2)	Pomology—Hort. 4	3	(2,2)
Plant Propagating—Hort. 9	3	(2,2)	Olericulture—Hort. 8	3	(2,2)
Olericulture—Hort. 7	3	(2,2)	Landscape G.—Hort. 6	3	(2,2)
Military Drill 7	1.5	(0,3)	Military Drill 8	1.5	(0,3)

Horticulture Electives.

First Semester			Second Semester		
Genetics—Agron. 5	3	(2,2)	F. Equipment—Agron. 14	3	(2,2)
Marketing—Agron. 17	3	(2,2)	F. Crop Insects—Ent. 10	3	(2,2)
English 7	2	(2,0)	English 8	2	(2,0)
Education 5	3	(2,2)	Education 16	3	(3,0)
Education 7	4	(3,2)	Plant Breeding—Agron. 6	3	(2,2)
R. O. T. C.—Advanced 7	2	(2,0)	Meteorology—Geology 10	2	(2,0)
			Rural Sociology 2	3	(2,2)
			Orchard Insects—Ent. 12	3	(2,2)
			R. O. T. C.—Advanced 8	2	(2,0)
			Plant Path.—Botany 8	3	(2,2)

II.—ARCHITECTURE

Architecture, always ranked as a fine art, is the oldest of the constructive sciences. It deals principally with the design of buildings, their sites and presentation, their construction, decoration and equipment. It is more circumscribed by utilitarian and technical conditions than any other of the fine arts, and in order to be successful it must be both practical and artistic.

Architectural design is the principal subject and much time is given to it. In this subject students in the drafting room, work out designs for buildings ranging from small structures to large public buildings and groups of buildings. Occasionally, a "sketch" problem, which has to be completed the same day, is given, but usually the problems require from three to six weeks for their completion. Individual criticism is given by the instructor during the progress of the problem and upon completion the drawings are hung up, criticized, judged and graded by members of the faculty. Thus, each student may profit by the experiences of others. The aim throughout this course is to develop imagination, creative power, ability to work out the organism of a building and skill in the clear and artistic presentation of the drawings.

History of architecture is also of great importance in this connection, for the architect must know the experiences and inspirations of the past, its successes and failures, that he may better live, think and build in terms of the present. The courses in freehand drawing and historic ornament are given not only for training in draftsmanship, but for creating effective work.

Strong courses in the constructional or engineering side of the profession, such as mathematics, mechanics, building construction, structural or working drawings and specifications, are given.

Students pursuing this course are advised to spend one or more summers in the routine work of an architect's office, as those who have had this experience advance faster in their work. A two year course will be offered for mature men who have had extended experience in architects' offices.

COURSE II.—ARCHITECTURE

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 3	5	(5,0)	Mathematics 4	5	(5,0)
English 1	3	(3,0)	English 2	3	(3,0)
Physics 1	3	(2,2)	Physics 2	3	(2,2)
History 1	3	(3,0)	History 2	3	(3,0)
Drawing 3, 11	2	(0,4)	Drawing—Arch. 2, 4	2	(0,4)
Shops 3, 19	2	(0,4)	Des. Geom.—Arch. 6	2	(0,4)
Military Science 1	1.5	(0,3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SOPHOMORE YEAR

Analytics—Math. 5	4	(4,0)	Calculus—Math. 6	4	(4,0)
English 3	3	(3,0)	English 4	3	(3,0)
Hist. of Arch.—Arch. 7	3	(3,0)	Hist. of Arch.—Arch. 8	3	(3,0)
Design—Arch. 11	7	(0,14)	Design—Arch. 12	7	(0,14
Cast Draw.—Arch. 9	1	(0,2)	Cast Draw.—Arch. 10	1	(0,2)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0,3)
	19.5			19.5	

JUNIOR YEAR

English 5	2	(2,0)	English 6	2	(2,0)
Calculus—Math. 7	3	(3,0)	Graphic Statics—C. E. 10	3	(3,0)
Mechanics—M. E. 3	3	(3,0)	Str. Materials—C. E. 8	3	(3,0)
Bldg. Construction-Arch. 17	2	(2,0)	Bldg. Construc.—Arch. 18	2	(2,0)
Design—Arch. 15	5.5	(0,11)	Design—Arch. 16	5.5	(0.11)
Cast Draw.—Arch. 13	1	(0,2)	Cast Draw.—Arch. 14	1	(0,2)
Military Science 5	3.5	(2,3)	Military Science 6	3.5	(2,3)
	20			20	

SENIOR YEAR

Economics - Econ. 1	2	(2,0)	Sociology Econ. 2	2	(2,0)
Bldg. Construc.—Arch. 23	5	(5,0)	Bldg. Construc.—Arch. 24	5	(5,0)
Heat and Sani.—Arch. 25	2	(2,0)	Heat and Sani.—Arch. 26	2	(2,0)
Design -Arch. 19.	5.5	(0,11)	Design—Arch. 20	5.5	(0,11)
Struct. Design—Arch. 21	3	(0,6)	Struct. Design—Arch. 22	3	(0,6)
Military Science 7	3.5	(2,3)	Military Science 8	3.5	(2,3
	21			21	

III.—CHEMISTRY

This course is intended to prepare the student to engage in manufacturing operations involving a knowledge of chemistry, or for employment as chemist in commercial, or fertilizer inspection, or food and feeding-stuff inspection laboratories, and for experiment station or U. S. Government service. A student who has satisfactorily completed this course will also be well equipped to teach elementary chemistry, and to pursue advanced work in chemistry.

The course is fixed for the first years, freshman and sophomore, and for the first semester of the junior year. Elections are allowed to make up the required 21.5 credits hours, in the second semester of the junior year, and in both semesters of the senior year, which give the student an opportunity to pursue the subject in the direction of chemical engineering, organic and physical chemistry, analytical and sanitary chemistry. The great advances in all branches of chemistry have made some specialization necessary, whether the student expects after graduation to enter any one of the various lines of work open to one who has had a thorough course in chemistry, or to pursue post graduate work. The opportunity for specialization in this course should be both attractive and profitable, whether the student expects to be a chemist, or desires to use his training and knowledge of chemistry in any of the many lines of work in which such training and knowledge are highly desirable, if not, indeed, indispensable.

In this course the student is well grounded in English, German, mathematics, physics mineralogy, and biology, as well as in general, organic, physical, and analytical chemistry, and is besides given an opportunity to specialize as above indicated.

COURSE III.—CHEMISTRY.

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 3	5	(5,0)	Mathematics 4	5	(5,0)
English 1	3	(3,0)	English 2	3	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Chemistry 1a	5	(3,4)	Chemistry 2a	5	(3,4)
Biology 1	3	(2,2)	Biology 2	3	(2,2)
Drawing 1	1	(0,2)	Drawing 8	1	(0,2)
Mil. Science 1	1.5	(0,3)	Mil. Science 2	1.5	(0,3)
	21.5			21.5	

SOPHOMORE YEAR

Anal. Math. 5	4	(4,0)	Calculus 6	4	(4,0)
English 3	3	(3,0)	English 4	3	(3,0)
Organic Chem. 5	3	(2,2)	Organic Chem. 6	3	(2,2)
Qual. Anal. 3	5	(0,10)	Quant. Anal. 4	5	(0,10)
German 1	2	(2,0)	German 2	2	(2,0)
Physics 3	3	(2,2)	Physics 4	3	(2,2)
Mil Science 3	1.5	(0,3)	Mil. Science 4	1.5	(0,3)
	21.5			21.5	

JUNIOR YEAR

Calculus 7	3	(3,0)	English 6	2	(2,0)
English 5	2	(2,0)	Phys. Chemistry 8	5	(3,4)
Phys. Chemistry 7	5	(3,4)	Mineralogy 8	3	(2,2)
Quant. Anal. 9	2	(0,4)	Mil. Science 6	3.5	(2,3)
Organic Chem. 11	3	(2,2)	Electives	8.	
Mineralogy 7	3	(2,2)			
Mil. Science 5	3.5	(2,3)		21.5	
			ELECTIVES—		
	21.5		Organic Chem. 12	3	(2,2)
			Metallurgy 16	4	(4,0)
			Mechanical Eng. 4	4	(3,2)
			Gas & Fuel Anal. 10	1	(0,2)

SENIOR YEAR

Economics—Econ. 1	2	(2,0)	Sociology—Econ. 2	2	(2,0)
History of Chem. 17	2	(2,0)	Stoichiometry 18	2	(2,0)
Inorganic Chem. 21	2	(2,0)	Inorganic Chem. 22	2	(2,0)
Colloid Chemistry 19	2	(2,0)	Colloid Chemistry 20	2	(2,0)
Technical Anal. 23	3	(0,6)	Thesis 24	4	(0,8)
Mil. Science 7	3.5	(2,3)	Mil. Science 8	3.5	(2,3)
Electives	7.		Electives	6.	
	21.5			21.5	

Senior Electives

Mechanical English 11	4	(3,2)	Selected topics in Chem. 26	4	(4,0)
Chemical Geology 5	2	(2,0)	Andanced Lab. Practice 28	2.4	(0,4,8)
Bacteriology 1	4	(2,4)	Bacteriology 4	4	(2,4)
Electrical Eng. 7	3	(2,2)			
Technical Anal. 23	1	(0,2)			

V.—CIVIL ENGINEERING

This course is intended to prepare young men for entrance upon professional practice in some of the many branches of civil engineering, and also to meet the needs of those who, having been engaged in engineering work without a course of instruction, desire to equip themselves for more successful competition with those who have had such instruction.

In connection with the technical studies, liberal training is given in English, history, economics, pure mathematics, and the physical sciences. The course will also be found to embrace a considerable amount of drawing, shop work, and short courses in electrical engineering and mechanical engineering.

The distinctive work pursued by students in this course includes the field and office work of surveying and leveling; topographic surveying and drafting; the location and construction of railroads and highways, and the bridges and other structures in connection therewith; involving investigation as to the strength of the materials of construction and the theories involved in the use thereof; masonry construction; foundations on land and under water; a particular study of highway engineering, including a laboratory course covering all the standard tests of highway material, both bituminous and non-bituminous; municipal and sanitary engineering, including water-supply, sewerage and drainage; and a brief study of engineering law including contracts and specifications. Actual design, as well as analytic investigation, is given in all cases.

COURSE V.—CIVIL ENGINEERING

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 3	5	(5,0)	Mathematics 4	5	(5,0)
English 1	3	(3,0)	English 2	3	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Physics 1	3	(2,2)	Physics 2	3	(2,2)
Shop 1, 17	2	(0,4)	Shop 2, 18	2	(0,4)
Drawing 5, 9	2	(0,4)	Drawing 6, 10	2	(0,4)
Military Sicence 1	1.5	(0,3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SOPHOMORE YEAR

Analytics—Math. 5	4	(4,0)	Calculus—Math. 6	4	(4,0)
English 3	3	(3,0)	English 4	3	(3,0)
Chemistry 1	3	(2,2)	Chemistry 2	3	(2,2)
Physics 5, 7	4	(3,2)	Physics 6, 8	4	(3,2)
Surveying—C. E. 1	4	(2,4)	Surveying—C. E. 2	4	(2,4)
Descriptive Geom.—Draw. 13	1	(0,2)	Drawing 16	1	(0,2)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0,3)
	20.5			20.5	

JUNIOR YEAR

Calculus—Math. 7	3	(3,0)	Mechanical Engr.—M. E. 4	4	(3,2)
English 5	2	(2,0)	English 6	2	(2,0)
Mechanics—M. E. 3	3	(3,0)	Graphic Statics—C. E. 12	2	(1,2)
Geology 3	2	(2,0)	Str. Materials—C. E. 10	3	(3,0)
Topog. Survey.—C. E. 7	2	(0,4)	R. R. Location—C. E. 8	2	(0,4)
R. R. Curves—C. E. 5	3	(3,0)	Design.—C. E. 14	2	(0,4)
Shop 15	1.5	(0,3)	Astronomy—Physics 14	2	(2,0)
Military Science 5	3.5	(2,3)	Military Science 6	3.5	(2,3)
	20			20.5	

SENIOR YEAR

Economics—Econ. 1	2	(2,0)	Sociology—Econ. 2	2	(2,0)
Masonry—C. E. 21	3	(3,0)	Water Supply—C. E. 24	3	(3,0)
Roads—C. E. 23	2	(2,0)	Sewerage—C. E. 26	3	(3,0)
Hydraulics—C. E. 17	2	(2,0)	Eng. Relations—C. E. 28	1	(1,0)
Electrical Eng.—E. E. 7	3	(2,2)	Bridge Design—C. E. 16	3	(2,2)
Mechanical Eng.—M. E. 9	4	(3,2)	Eng. Investigations—C. E. 30	2	(0,4)
Road Materials—C. E. 31	1.5	(0,3)	Road Materials—C. E. 32	1.5	(0,3)
Military Science 7	3.5	(2,3)	Thesis—C. E. 34	1	(0,2)
			Military Science 8	3.5	(2,3)
	20			20	

VI.—ELECTRICAL ENGINEERING

Electrical engineering is developing so rapidly and is being applied in such widely different fields that it is impossible for any college course to cover it adequately. There are, however, certain fundamental laws which underlie all the important applications of electricity. In the careful study of these laws and a few of the more fundamental applications, this course attempts to lay the foundation on which the student may rapidly build his professional career in any branch of electrical engineering.

The course includes the study of those subjects which form a necessary foundation for the study of electrical theory and practice; sufficient drawing and shop work to develop the co-ordination between mind and hand, and at the same time give the student some idea of the possibilities of engineering materials; and other subjects which broaden his intellectual growth. He is encouraged to take an interest in public affairs, to give time to more extensive and diversified reading, and to enter into various student activities.

COURSE VI.—ELECTRICAL ENIGNEERING

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 3	5	(5,0)	Mathematics 4	5	(5,0)
English 1	3	(3,0)	English 2	3	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Physics 1	3	(2,2)	Physics 2	3	(2,2)
Shop 1, 17	2	(0,4)	Shop 2, 18	2	(0,4)
Drawing 5, 9	2	(0,4)	Drawing 6, 10	2	(0,4)
Military Science 1	1.5	(0.3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SOPHOMORE YEAR

Analytics—Math. 5	4	(4,0)	Calculus—Math. 6	4	(4,0)
English 3	3	(3,0)	English 4	3	(3,0)
Chemistry 1	3	(2,2)	Chemistry 2	3	(2,2)
Physics 5, 7	4	(3,2)	Physics 6, 8	4	(3,2)
Surveying—C. E. 3	2	(1,2)	Surveying—C. E. 4	2	(1,2)
Shop 7, 21	2	(0,4)	Shop 8, 22	2	(0,4)
Descriptive Geom.—Draw. 13	1	(0,2)	Drawing 16	1	(0,2)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0,3)
	20.5			20.5	

JUNIOR YEAR

Calculus—Math. 7	3	(3,0)	Mechanical Engr.—M. E. 4	4	(3,2)
English 5	2	(2,0)	English 6	2	(2,0)
Mechanics—M. E. 1	3	(3,0)	Mechanics—M. E. 2	3	(3,0)
Electrical Egr. E. E. 1	4.5	(3,3)	Electrical Engr.—E. E. 2	4.5	(3,3)
Design—Drawing 17	1.5	(0,3)	Design—Drawing 18	1.5	(0,3)
Shop 13	2.5	(0,5)	Shop 14	1.5	(0,3)
Military Science 5	3.5	(2,3)	Military Science 6	3.5	(2,3)
	20			20	

SENIOR YEAR

Economics—Econ. 1	2	(2,0)	Sociology—Econ. 2	2	(2,0)
Str. Materials—C. E. 19	3	(3.0)	Hydraulics—C. E. 18	2	(2,0)
Electrical Engr. E. E. 3	7	(5,4)	Electrical Engr.—E. E. 4	7.5	(5,5)
Mechanical Engr.—M. E. 7	4	(3,2)	Mechanical Engr.—M. E. 8	4	(3,2)
Design—M. E. 13	1	(0,2)	Design—E. E. 10	1	(0,2)
Military Science 7	3.5	(2,3)	Military Science 8	3.5	(2,3)
	20.5			20.5	

VII.—MECHANICAL ENGINEERING

The course in mechanical engineering is designed to give the graduate as broad a training as possible and at the same time to fit him for some specific type of work.

It embraces practically all forms of engineering which have for their objects the application of the forces of nature to the accomplishment of the processes of industry. The course is designed to give an intimate knowledge of the materials used in engineering, the laws of mechanics and the characteristics of various types of machinery.

The shop courses embrace wood work, forge work, foundry and machine work. The purpose of this instruction is not to turn out skilled workmen but to train those faculties of mind which can best be reached through the work of the hand, and at the same time, give the student a clear knowledge of the characteristics and possibilities of the materials used in engineering.

Considerable time is given to the study of the laws of the physical sciences, in such subjects as physics, chemistry, mechanics electricity and magnetism and thermodynamics.

During the fourth year stress is laid on the application of the fundamental principles already covered so that the graduate may be able to design or manage those types of machines which ordinarily come under the supervision of the mechanical engineer.

The mechanical engineer should have a good liberal education, so in addition to the regular technical work comprehensive training is given in English, history, economics, civics and related subjects.

COURSE VII.—MECHANICAL ENGINEERING

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 3	5	(5,0)	Mathematics 4	5	(5,0)
English 1	3	(3,0)	English 2	2	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Physics 1	3	(2,2)	Physics 2	3	(2,2)
Shop 1, 17	2	(0,4)	Shop 2, 18	2	(0,4)
Drawing 5, 9	2	(0,4)	Drawing 6, 10	2	(0,4)
Military Science 1	1.5	(0,3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SOPHOMORE YEAR

Analytics—Math. 5	4	(4,0)	Calculus—Math. 6	4	(4,0)
English 3	3	(3,0)	English 4	3	(3,0)
Chemistry 1	3	(2,2)	Chemistry 2	3	(2,2)
Physics 5, 7.	4	(3,2)	Physics 6, 8	4	(3,2)
Surveying—C. E. 3	2	(1,2)	Surveying—C. E. 4	2	(1,2)
Shop 7, 21	2	(0,4)	Shop 8, 22	2	(0,4)
Descriptive Geom.—Draw. 13	1	(0,2)	Drawing 16	1	(0,2)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0,3)
	20.5			20.5	

JUNIOR YEAR

Calculus—Math. 7	3	(3,0)	Mechanical Engr.—M. E. 4	4	(3,2)
English 5	2	(2,0)	English 6	2	(2,0)
Mechanics—M. E. 1	3	(3,0)	Mechanics—M. E. 2	3	(3,0)
Electrical Engr. E. E. 1	4.5	(3,3)	Electrical Engr.—E. E. 2	4.5	(3,3)
Design—Drawing 17	1.5	(0,3)	Design—Drawing 18	1.5	(0,3)
Shop 13	2.5	(0,5)	Shop 14	1.5	(0,3)
Military Science 5	3.5	(2,3)	Military Science 6	3.5	(2,3)
	20			20	

SENIOR YEAR

Economics—Econ. 1	2	(2,0)	Sociology—Econ. 2	2	(2,0)
Str. Materials—C. E. 19	3	(3,0)	Hydraulics—C. E. 18	2	(2,0)
Mechanical Engr.—M. E. 5	7	(5,4)	Mechanical Engr.—M. E. 6	7.5	(5,5)
Electrical Engr. E. E. 5	4	(3,2)	Electrical Engr.—E. E. 6	4	(3,2)
Design—E. E. 9	1	(0,2)	Design—M. E. 14	1	(0,2)
Military Science 7	3.5	(2,3)	Military Science 8	3.5	(2,3)
	20.5			20	

VIII.—TEXTILE INDUSTRY

The course in Textile Industry is designed to give the student sound training, both theoretical and practical, in the sciences upon which manufacturing processes are based. The curriculum of the course recognizes that in a profession of so many aspects a broad general education, and a thorough knowledge of the underlying principles are necessary for its successful practice.

The first year of the course is the same as that of the other engineering courses offered. The study of textile subjects begins with the second year, and more time is given to these subjects in the Junior and Senior years. The practical work is carried on for the purpose of developing in the student habits of accurate observation, and some skill in manipulation, supplementing the theoretical work. In this work special consideration is given to economy of time, precision of results, and attention to details. as well as to methods of fundamental importance.

This course does not presume to fit one for an executive position in a mill, but the graduate is in possession of such information, and has acquired such knowledge and experience that he may look forward to a successful career provided he has the necessary energy, application, and tact, and a willingness to begin at the bottom.

COURSE VIII.—TEXTILE INDUSTRY

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 3	5	(5,0)	Mathematics 4	5	(5,0)
English 1	3	(3,0)	English 2	3	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Physics 1	3	(2,2)	Physics 2	3	(2,2)
Shop 1, 17	2	(0,4)	Shop 2, 18	2	(0,4)
Drawing 5, 9	2	(0,4)	Drawing 6, 10	2	(0,4)
Military Science 1	1.5	(0.3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SOPHOMORE YEAR

Analytics—Math. 5	4	(4.0)	Calculus—Math. 6	4	(4,0)
English 3	3	(3,0)	English 4	3	(3,0)
Chemistry 1	3	(2,2)	Chemistry 2	3	(2,2)
Surveying—C. E. 3	2	(1,2)	Surveying—C. E. 4	2	(1,2)
Descriptive Geom.—Drawing 3	1	(0,2)	Drawing 14	1	(0,2)
Pickers—Yarn Mfg. 1.	3	(2,2)	Cards and Drw Frames Yarn, Mfg 2	3	(2,2)
Fab. Construction—Tech. Fab. 1	2	(2,0)	Design—Tech. Fab 2	2	(2,0)
Weaving—Tech. Fab. 11	1	(0,2)	Loom Fixing—Tech. Fab. 12	1	(0,2)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0,3)
	20.5			20.5	

JUNIOR YEAR

Calculus—Math. 7	3	(3,0)	Mechanical Engineering 4	4	(3,2)
English 5	2	(2,0)	English 6	2	(2,0)
Mechanics—M. E. 1	3	(3,0)	Mechanics—M. E. 2	3	(3,0)
Roving Frames—Yarn Mfg. 3	3	(2,2)	Spinning—Yarn Mfg. 4	3	(2,2)
Dobby Design—Tech. Fab. 3	1	(0,2)			
Fab. Analysis—Tech. Fab. 5	1	(0,2)	Fab. Analysis—Tech. Fab. 6	1	(0,2)
Weaving—Tech. Fab. 13	1	(0,2)	Weaving—Tech. Fab. 14	1	(0,2)
Applied Chem.—Textile Chem. 1	3	(2,2)	Org. Chem.—Text. Chem. 2	3	(2,2)
Military Science 4	3.5	(2,3)	Military Science 5	3.5	(2,3)
	20.5			20.5	

SENIOR YEAR

Economics—Econ. 1	2	(2,0)	Sociology—Econ. 2	2	(2,0)
Electrical Engineering 7	3	(2,0)	Combers—Yarn Mfg. 6	2	(1,2)
Mechanical Engineering 11	4	(3,2)	Mill Econom.—Yarn Mfg. 8	1	(1,0)
Spinning—Yarn Mfg. 5	3	(2,2)	Jacq. Design—Tech Fab. 8	2	(0,4)
Designing and Prep. Tech. Fab. 7	2	(2,0)	Weave Methods—Tech, Fab. 10	3	(3,0)
			Weaving—Tech. Fab. 16	2	(0,4)
			Knitting—Tech, Fab. 18	1	(0,2)
Organic Chem.—Textile Chem. 3	3	(2,2)	Dyeing—Text. Chem. 4	2	(0,4)
Military Science 7	3.5	(2,3)	Military Science 8	3.5	(2,3)
	20.5			18.5	

VIII(a).—INDUSTRIAL EDUCATION

By the enactment of the Smith-Hughes law for the promotion of vocational education, Congress has provided funds for encouraging and assisting in the development of instruction throughout the country in agriculture, home economics, and trades and industries.

This course has for its purpose the preparation of young men for positions of usefulness and responsibility in the trades and industries of the state. The course includes instruction in the fundamental principles of education, of engineering, and of the textile industry.

The prime purpose of the course is to prepare for positions as teachers of trade and industrial subjects, or as "service man" in a manufacturing establishment. As the textile industry is the dominant one in the state, that industry is given special prominence. The course is essentially a combination of instruction in the textile industry and the training of industrial teachers.

COURSE VIII(a).—INDUSTRIAL EDUCATION

FRESHMAN and SOPHOMORE subjects same as Course VIII.

JUNIOR YEAR

First Semester			Second Semester		
Calculus—Math. 7	3	(3,0)	Mechanical Engineering 4	4	(3,2)
English 5		(2,0)	English 6	2	(2,0)
Education 1	3	(3,0)	Education 5	3	(2,2)
Roving Frames—Yarn Mfg. 3	3	(2,2)	Spinning—Yarn Mfg. 4	3	(2,2)
Dobby Design—Tech. Fab. 3	1	(0,2)			
Fab. Analysis—Tech. Fab. 5	1	(0,2)	Fab. Analysis—Tech. Fab. 6	1	(0,2)
Weaving—Tech. Fab. 13	1	(0,2)	Weaving—Tech. Fab. 14	1	(0,2)
Applied Chemistry—Text. Chem. 1	3	(2,2)	Org. Chem.—Text. Chem. 2	3	(2,2)
Military Science 4	3.5	(2,3)	Military Science 5	3.5	(2,3)
	20.5			20.5	

SENIOR YEAR

Economics—Econ. 1	2	(2,0)	Sociology—Econ. 2	2	(2,0)
Prin. of Teach.—Ed. 7	4	(3,2)	Military Science 8	3.5	(2,3)
Electrical Engineering 7	3	(2,2)	Electives	13	
Military Science 7	3.5	(2,3)			
Electives	6-8				

Students taking the course in Industrial Education will be permitted to elect in the Senior Year under the direction of the Director of the Textile Department such subjects, as will best fit them for the field of industrial education in which they are most interested.

COURSE IX.—GENERAL SCIENCE

This course is designed to give a broad, general education in science rather than prepare for any special branch such as agriculture or engineering.

A person interested in teaching science in the high school wil find this an excellent course. The student may elect a sufficient number of subjects in education to secure a professional teachers' certificate upon graduation.

The course is also valuable as a foundation for a business career.

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 1	3	(3,0)	Mathematics 2	3	(3,0)
English 1	3	(3,0)	English 2	3	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Chemistry 1	5	(4,2)	Chemistry 2	4	(3,2)
Biology—Botany 1	3	(2,2)	Biology—Botany 2	3	(2,2)
Drawing 1 and Shop 5	2	(0,4)	Drawing 8, and Shop 6	2	(0,4)
Military Science 1	1.5	(0,3)	Military Science 2	1.5	(0,3)
	20.5			19.5	

SOPHOMORE YEAR

English 3	3	(3,0)	English 4	3	(3,0)
Physics 3	3	(2,2)	Physics 4	3	(2,2)
Geology 1	3	(3,0)	Geology 2	1	(0,2)
Morphology—Botany 5	3	(2,2)	Zoology 2	4	(3,2)
Modern Language	3	(3,0)	Modern Language	3	(3,0)
Electives	4	( )	Electives	4	( )
Military Science 3	1.5	(0,3)	Military Sicence 4	1.5	(0,3)
	20.5			19.5	

SOPHOMORE ELECTIVE

Analytics—Math. 5	4	(4,0)	Calculus Math. 6	4	(4,0)
Organic Chemistry 5	3	(2,2)	Organic Chemistry 6	3	(2,2)
Quant. Analysis 3a	1	(0,2)	Quant. Analysis 4	1	(0,2)

JUNIOR YEAR

English 5	2	(2,0)	English 6	2	(2,0)
Physics	4	( )	Physics	4	( )
Chemistry..	3	( )	Chemistry	3	( )
Psychology—Ed. 3	2	(2,0)	Psychology—Ed. 4	2	(2,0)
Military Science 5	3.5	(2,3)	Military Science 6	3.5	(2,3)
Electives	4-6		Electives	4-6	( )

SENIOR YEAR

English 7	2	(2,0)	English 8	2	(2,0)
Economics—Econ. 1	2	(2,0)	Sociology—Econ. 2	2	(2,0)
Military Science 7	3.5	(2,3)	Military Science 8	3.5	(2,3)
Electives	11-12		Electives	11-12	

In addition to the prescribed work in the junior and senior years, each student is required to select from the groups of elective subjects a sufficient amount of work to give a total of not less than 18 and not more than 20 credit hours each semester.

Each student is required to elect at least 12 semester hours in each of two of the following groups.

It may be possible with the consent of the head of the department concerned to elect courses outside of the ones listed in the following groups of courses.

In order to secure credit for a course, the entire course must be satisfactorily completed. No course may be elected unless all the prerequisite work has been completed.

ELECTIVES.

Group I

First Semester			Second Semester		
Calculus—Math. 7	3	(3,0)	Meteorology—Geol. 10	2	(2,0)
Physics	4	( )	Physics	4	( )
Mineralogy—Geol. 7	3	(2,2)	Mineralogy 8—Geol. 8	3	(2,2)
Chemistry	4	( )	Chemistry	4	( )
Bacteriology 1	4	(2,4)	Bacteriology 4	4	(2,4)
Forestry—Botany 3	2	(2,0)	Mechanical Engr.—M. E. 4	4	(3,2)
Electrical Engr.E. E. 1	4.5	(3,3)	Electrical Engr.—E. E. 2	4.5	(3,3)
Mechanics—M. E. 1	3	(3,0)	Mechanics—M. E. 2	3	(3,0)
Surveying—C. E. 1	4	(2,4)	Surveying—C. E. 2	4	(2,4)
Industrial Arts—Shop 9	1	(0,2)	Plant Phys. Botany 6	4	(2,4)
Industrial Arts—Shop 23	1	(0,2)	Industrial Arts—Shop 24	1	(0,2)
Industrial Arts—Shop 25	1	(0,2)	Industrial Arts—Shop 26	1	(0,2)
Genetics—Agronomy 5	3	(2,2)			
Entomolomy 3	3	(2,2)			
Drawing	1	(0,2)	Drawing	1	(0,2)

Group II.

Marketing—Agronomy 17	3	(2,2)	Economics	3	( )
Business Law—Eng. 11	2	(2,0)	F Management-Agron. 16	3	(2,2)
Farm Management Agronomy 3	3	(2,2)	F. Equipment-Agron. 14	3	(2,2)
Rural Sociology 1	3	(3,0)	Rural Sociology 2	3	(2,2)
Bible 1	3	(3,0)			

Group III

Spanish 1	3	(3,0)	Spanish 2	3	(3,0)
Spanish 3	3	(3,0)	Spanish 4	3	(3,0)
German 1	3	(3,0)	German 2	3	(3,0)
German 3	3	(3,0)	German 4	3	(3,0)
English	3	(3,0)	English	3	(3,0)

Group IV

Introduction to Education 1	3	(3,0)	Educ. Psychology 5	3	(2,2)
Prin. of Teaching 7	4	(3,2)	Sp. Methods in Teaching High School Subjects 10	4	(3,2)
			Practice Teaching 14	3	( )

COURSE XIII.—PRE-MEDICAL

In order to meet the minimum requirements for entrance into a standard medical college it is necessary that the student graduate from high school with not less than fifteen standard units, and have to his credit two years of college work. This course meets the requirements as to biology, chemistry, physics, language and other subjects. If it is desired to spend more than two year in preparation for the study of medicine the student is advised to take the Science Course.

FIRST YEAR

First Semester	Credits		Second Semester		
Machematics 1	3	(3,0)	Mathematics 1	3	(3,0)
English 1	3	(3,0)	English 2	3	(3,0)
Biology—Botany 1	3	(2,2)	Biology—Botany 2	3	(2,2)
Chemistry 1	5	(4,2)	Chemistry	5	(4,2)
Language	3	(3,0)	Language	3	(3,0)
Drawing 1	1	(0,2)	Drawing 8	1	(0,2)
Drill 1	1.5	(0,3)	Drill 1	1.5	(0,3)

SECOND YEAR

Chemistry 7	3	(2,2)	Chemistry 8	3	(2,2)
Psychology—Ed. 3	2	(2,0)	Phychology—Ed. 4	2	(2,0)
Physics 4	4	( )	Physics	4	( )
English 3	3	(3,0)	English 4	3	(3,0)
Language	3	(3,0)	Language	3	(3,0)
Botany 5	3	(2,2)	Zoology 2	4	(3,2)
Drill 2	1.5	(0.3)	Drill	1.5	(0,3)

COURSE XII.—TWO-YEAR AGRICULTURE

The purpose of this course is three fold. To offer an opportunity to young men who have not the time nor the inclination to spend more than two years in college. To give in two years many of the advantages of a college training, a general education and a vocation. To inspire men that they will see the great desirability of taking a four year course.

The course will not only teach better farming methods and the business of farming, but subjects such as English, mathematics, etc. will be included.

FIRST YEAR

First Semester			Second Semester		
Farm Machinery—Agronomy 101	4	(3,2)	Crops—Agron. 102	4	(3,2)
Animal Husbandry 101	4	(3,2)	Dairy Farm—Dairy 102	4	(3,2)
English 101	4	(4,0)	English 102	4	(4,0)
Mathematics 101	4	(4,0)	Mathematics 102	4	(4,0)
Gen. Science 101	3	(3,0)	Gen. Science 102	3	(3,0)
Military Science 1	1.5	(0.3)	Military Science 2	1.5	(0,3)
	20.5			20.5	

SECOND YEAR

Crops—Agronomy 103	4	(3,2)	Crops—Agron. 104	4	(3,2)
Horticulture 101	3	(2,2)	Horticulture 102	3	(2,2)
Entomology 101	3	(2,2)	Plant Diseases—Botany 102	3	(2,2)
English 103	3	(3,0)	English 104	3	(3,0)
Veterinary Science 101	3	(2,2)	Cotton Classing—Yarn Mfg. 106	1	(0,2)
Farm Management—Agronomy 105	3	(2,2)	Rural Sociology 100	3	(2,2)
Shop 101	1	(0,2)	Shop 102	1	(0,2)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0,3)
	21.5			19.5	

COURSE XI—TWO-YEAR TEXTILE

To meet the demands of Southern conditions for a class of young men trained in the finer details of cotton manufacture, a special two-year course has been arranged to accommodate a limited number of students who may not be in a position to take the four-year textile course.

This course includes mathematics, English, free-hand and mechanical drawing, carding, spinning, weaving and designing, is thoroughly practical, and allows the greater portion of the student's time to be devoted to the study of textile subjects.

To pursue his course successfully the student must be well grounded in arithmetic, and should be capable of expressing his thoughts clearly in writing. The student seeking admission to this course must present himself at the College during the regular entrance examination period and satisfy his instructors that he is prepared to undertake the work. No student will be admitted after that time. Students must be at least 18 years of age, and must have had at least one year's experience in some cotton mill. Students who have failed in the regular degree courses will not be allowed to change to this course.

FIRST YEAR

First Semester			Second Semester		
English 101	4	(4,0)	English 102	4	(4,0)
Card. and Spin.—Yarn Mfg. 101	4	(2,4)	Card. and Spin.—Yarn Mfg. 102	4	(2.4)
Applied Math.—Yarn Mfg. 105	4	(4,0)	Gen. Science-Text, Chem. 104	4	(4,0)
Designing—Tech. Fab. 101.	2	(2,0)	Designing—Tech. Fab. 102	2	(2,0)
Weaving—Tech. Fab. 103	2	(0,4)	Weaving—Tech. Fab. 104	2	(0,4)
Drawing 5, 9	2	(0,4)	Drawing 6, 10	2	(0,4)
Military Science 1	1.5	(0.3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SECOND YEAR

English 103	3	(3.0)	English 104	3	(3,0)
Chemistry 1	3	(2.2)	Chemistry 2	3	(2,2)
Card and Spin.—Yarn Mfg. 103	4	(2,4)	Card. and Spin.—Yarn Mfg. 104	4	(2,4)
Fab. Analysis—Tech. Fab. 105	3	(3,0)	Jacq. Design-Tech. F. 106	3	(3,0)
Weaving—Tech. Fab. 107	2	(0,4)	Weaving—Tech. Fab. 108	2	(0,4)
Dyeing—Text. Chem. 101	2	(0,4)	Dyeing—Text. Chem. 102	2	(0,4)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0.3)
	18.5			18.5	

This course is subject to change, depending upon the preparation and experience of the students.

DESCRIPTION OF SUBJECTS

For convenience of reference all subjects are grouped under general heads. In the description of subjects, the first line gives (a) general classification and number, (b) specific title, (c) the semester taught, and (d) the names of the instructors. The second line gives the class and course in which the subject occurs. The figures in parentheses indicate the number of hours a week, theory and practice, respectively devoted to the subject.

Odd numbers are assigned to subjects taught during the first semester and even numbers to those taught during the second semester. A subject taught throughout the session is given both an odd and an even number.

AGRONOMY

Professor Blackwell

Assistant Professor Robinson

Associate Professor McAlister

Assistant Professor Sturkie

AGRONOMY 1.—Cotton and Corn—Semester 1. **(Sturkie)**
Sophmore I: (3 and 2)

A detailed course dealing with the history, origin, botanical characteristics, physiology, ecology, varieties, breeding, soil adaptations, fertilizer requirements, and the cultural methods of cotton and corn. Laboratory largely devoted to field studies of these crops. Recitations, assigned reading, problems.

Text-book: "Field crops for the Cotton Belt."—Morgan. "The Corn Crops."—Montgomery.

AGRONOMY 2—Farm Machinery—Semester 2. ...(McAlister)
Somphmore I: (3 and 2)

A study of the construction, adjustment and operation of the latest improved machinery for the farm including internal combustion engines. Laboratory work consists of a study of the various machines together with rope work, belt lacing and other farm practices.

Text-book: "Equipment for the Farm and Farmstead."—Ramsower.

AGRONOMY 3.—Farm Management—Semester 1. **(Robinson)**
Junior I: (2 and 2)

The business of farming. A survey of the business aspects of farm operations. The relation of capital, choice of land, farm equipment, farm layout, cropping systems, specific agricultural industries. The correlation and application of problems. Recitations, assigned, readings, problems, demonstrations.

Text-book: "Farm Management".—Warren.

AGRONOMY 4.—Soils—Semester 2. (Sturkie)
Junior I: (3 and 2)

A fundamental course in soils. It is intended to cover the basic principles of soil physics, soil fertility, soil biology, and soil management. It deals with the soil as a reservoir for water, as a medium for root development, as a source of nutrients, and as a home of organisms.

A laboratory course is given which deals almost exclusively with the physical properties of the soil.

Text-book: "The Nature and Properties of Soils."—Lyon, Buckman.

AGRONOMY 5.—Genetics—Semester 1. (Blackwell)
Senior I, IX: Elective: (2 and 2)

A course dealing with the laws of heredity and equally applicable to plants or animals.

Text-book: "Genetics"—Walter.

AGRONOMY 6—Plant Breeding—Semester 2. (Blackwell)
Seniors I. Elective: (2 and 2)
Prerequisite: Agronomy 5.

A study of methods of improving field crops by breeding. All of the common field crops are included and especial emphasis is placed on cotton, corn, tobacco, small grains and forage plants.

Text-book: "Breeding Crop Plants"—Hays and Garber.

AGRONOMY 7.—Forage Crops.— Semester 1. (Sturkie)
Senior I: (2 and 2)

A course dealing with the characteristics of the various forage crops, with special emphasis on those grown in this state. These crops are studied with special reference to their adaptations, growing, harvesting composition, value and uses, and also with reference to their place in our cropping system.

Text-book: "Forage Crops and Their Culture"—Piper.

AGRONOMY 9, 10—Crops—Semester 1 and 2. (Blackwell)
Senior I. Elective: (2 and 2)
Prerequisite: Agronomy 1, 2, 3, and 4.

An advanced course in crops dealing with the more important cash crops and small grain crops of the southeastern part of the U. S.

Text-book: "The Small Grains"—Carleton. Other books and bulletins will be used as references.

AGRONOMY 12.— Fertility and Fertilizers—Semester 2. (Sturkie)

Senior I: (2 and 2)

Prerequisite: Agronomy 4.

A course dealing with the history and development of theories of soil fertility in their relation to present day problems in soil fertility. A study is made of the sources, composition, value, and uses of fertilizers and manures and theories of soil fertility.

Text-book: "Manures and Fertilizers"—Wheeler.

AGRONOMY 13—Agricultural Surveying and Drainage—Semester 1. (McAlister)

Seniors I. Elective: (2 and 2)

Surveying small areas with tape, level and rod, computing areas, topographic mapping. Design and study of drainage systems. Prevention of soil erosion with special emphasis on terracing.

Text-book: "Agricultural Surveying and Drainage"—Scoates.

AGRONOMY 14—Farm and Home Equipment—Semester 2. (McAlister)

Senior I. Elective: (2 and 2)

Lectures and laboratory exercises on the planning and arrangement of farm buildings. Special study of heating, lighting, water supply and sewage disposal systems for the farm homes.

AGRONOMY 15.—Farm Shop—Semester 1. (McAlister)

Senior I. Elective: (1 and 2)

This course is designed especially for Agricultural Education seniors who are prospective teachers of this subject in high schools. Special emphasis is placed on farm wood work and how to make simple repairs.

AGRONOMY 16.—Farm Management—Semester 2. (Robinson)

Senior I. Elective : (2 and 2)

Prerequisite: Agronomy 3.

This is a course in which special problems with field crops are considered from the business standpoint. Calendar of operations, cost of production, analysis of farm businesses, and profits are given special attention.

Text-book: "Farm Management"—Adams.

AGRONOMY 17.—Marketing—Semester 1. (Robinson)

Senior I. Elective: (2 and 2)

A study of the fundamental principles that apply to the marketing of Agricultural products. Special attention is given to assembling, grading, transportation, storage, financing, and co-operative marketing of the important farm products in this state.

Text-book: "Marketing Agricultural Products"—Hibbard.

AGRONOMY 101.—Elementary Farm Machinery—Semester 1. (McAlister)

Two-Year Agr. XII: (3 and 2)

A study of the common farm machines, their construction, adjustment and operation, including farm gas engines and tractors.

Text-book: "Equipment for the Farm and Farmstead"—Ramsower.

AGRONOMY 102.—Crops—Semester 2. (Robinson)

Two-Year Agr. XII: (3 and 2)

A course dealing with the characteristics of corn, small grains, and forage crops, with special emphasis on those grown in this state. These crops are studied with special reference to their adaptation, growing, harvesting, composition, value and use and also with reference to their place in the cropping system.

Text-book: "Field Crops for the Cotton Belt"—Morgan.

AGRONOMY 103.—Crops Semester 1 (Robinson)

Two-Year Agr. XII: (3 and 2)

A general elementary course in Agronomy for two year students. The course will deal with the important crops of this region including a study of their cultivation, soil adaptation, fertilizer requirements, and the latest machinery in their production and handling.

Text-book: "Field Crops for the Cotton Belt"—Morgan.

AGRONOMY 104.—Soils—Semester 2. (Sturkie)

Two-Year Agr. XII: (3 and 2)

A general course in soils for two year students. The course will deal with general soil problems and specific problems for South Carolina with special emphasis on handling, fertilization, maintaining and improving the productivity. Fertilizers and manures will be given in connection with this course.

AGRONOMY 105.—Farm Management—Semester 1. (Robinson)

Two-Year Agr. XII: (2 and 2)

This course deals with the business aspects of farm operations. Farm bookkeeping and cost accounting constitute an important part of the course. In a practical way the considerations of size of farm capital, choice of land, farm equipment, farm layout, cropping systems, marketing and labor income will also be dealt with.

Text-book:—"Farm Management"—Warren.

Division Rooms and Equipment.

The Division of Agronomy occupies six rooms in Agricultural Hall and the large flat building below the Dairy Building, where the farm machinery is stored and where farm machinery work is given.

The Division offices are all on the second floor of the Agricultural Hall. The lecture room and farm crops laboratory are also on this floor. The farm crops laboratory is well supplied with equiqment and material for teaching the characteristics of the various crops and for a study of market classes and grades of the grain crops. Much of our laboratory work is conducted in the fields with the growing crops.

The soils laboratory is located in room No. 1, in the basement of Agricultural Hall, and is well supplied with modern equipment for teaching soil physics

The farm machinery laboratory work is given in the large one story building, known as Farm Machinery Hall. This building has a concrete floor and is well equipped with the latest and best machinery, tractors, gas engines, farm lighting plants, and land drainage equipment.

ANIMAL HUSBANDRY

Professor Starkey

Associate Professor Morgan

ANIMAL HUSBANDRY 2—Types, Breeds, Market Classes and Grades of Farm Animals—Semester 2. (Morgan)

Sophomore I. (3 and 2)

This course is designed to give the student a knowledge of the characteristics and use of the various types of farm animals, the history, methods of improvement, and characteristics of the leading breeds; market demands and market classification of live stock.

Text-book: "Types and Market Classes of Live Stock"—Vaughan. "Types and Breeds of Farm Animals"—Plumb.

ANIMAL HUSBANDRY 3—Principles of Feeding—Semester 1. (Morgan)

Junior I. Elective: (2 and 2)

A study of the composition of feeds, use of feeds, feed requirements and calculation of balanced rations for farm animals; classification and value of feedstuffs.

Text-books: "Feeds and Feeding"—Henry and Morrison. "Principles of Feeding Farm Animals"—Bull.

ANIMAL HUSBANDRY 4—Animal Breeding—Semester 2. (Morgan)

Senior I. Elective: (2 and 2)

Prerequisite: Animal Husbandry 2 and Genetics.

This course is an advanced study in breeding which includes the practical application of the principles of genetics to the breeding of farm animals. The course includes a discussion of the subjects of reproduction, variation, heredity, selections, line breeding, inbreedings, cross breeding, grading and other subjects correlated with the breeding and improvement of farm animals.

Text-book: "The Breeding of Animals."—Mumford.

ANIMAL HUSBANDRY 5—Feeds and Feeding—Semester 1. (Starkey)

Senior I. Elective: (2 and 2)
Prerequisite: Animal Husbandry 3.

A detailed study of the composition, digestibility, use and value of different feedstuffs; an advanced study of digestion, absorption, metabolism, and functions of food nutrients; feed requirements and feeding standards.

Text-book: "Feeds and Feeding"—Henry and Morrison.

ANIMAL HUSBANDRY 6—Beef Production—Semester 2. (Starkey and Morgan).

Senior I. Elective: (2 and 2)
Prerequisite: Animal Hunbandry 2 and 3.

A discussion of the general care and management of beef cattle, including a careful study of feeding and marketing methods. Textbook supplemented by study of station bulletins.

Text-book: "Beef Production"—Mumford.

ANIMAL HUSBANDRY 7—Animal Production—Horses, Mules and Sheep.—Semester 1. (Morgan)

Senior 1. Elective: (2 and 2).
Pre-requisite: Animal Husbandry 2 and 3.

This is a course in the breeding, feeding, care and management of horses and mules and sheep. The course is divided into two distinct units, horse and mule production and sheep production.

Text-books: "Productive Horse Husbandry"—Gray. "Productive Sheep Husbandry"—Coffey.

ANIMAL HUSBANDRY 8—Pork Production—Semester 2. (Starkey and Morgan.)

Senior I. Elective: (2 and 2)
Prerequisite: Animal Hunbandry 2 and 3.

The breeding, feeding and management of commercial and purebred breeding herds. A careful study of approved feeding and breeding methods.

Text-book: "Pork Production"—Smith.

ANIMAL HUSBANDRY 9—Advanced Stock Judging—Semester 1. (Morgan).

Senior I. Elective: (To be determined)
Prerequisite: Animal Husbandry 2.

An advanced course in the judging of breeding and fatstock. Students taking this course will be required to take trips to leading livestock farms and to attend fairs for the purpose of judging and inspection.

Text-book: "Judging Farm Animals"—Plumb.

ANIMAL HUSBANDRY 8a.—Live Stock Judging—Semester 2. (Morgan)
Junior. Elective: (0-2)

A course in live stock judging to prepare students who plan to major in Animal Husbandry for the live stock judging contest at the Southeastern Fair, which is held early in the Senior year. The fundamentals in judging and in giving reasons are taken up in detail.

ANIMAL HUSBANDRY 101—Elements of Animal Husbandry—Semester 1. (Morgan.)
Two-Year Agr. XII: (3 and 2.)

A practical study of the types and breeds of live stock and the judging of same; also a study of the principles of breeding and feeding live stock.

Text-book: "A Study of Farm Animals"—Plumb.

ARCHITECTURE

Professor Lee

Assistant Professor Allen

ARCHITECTURE 2—Freehand Drawing—Semester 2. (Harris)
Freshman II. (0 and 2)
Prerequisite: Drawing 5

Continuation of Drawing 5, sketching of models in outline, sectioning and shading. Particular attention is given to the development of the imagination.

ARCHITECTURE 4—Elements of Architecture—Semester 2. (Allen)
Freshman II. (0 and 2)
Prerequisites: Drawing 3, 11.

A study of classic proportions and design with details of "The Orders" and their application.

Text-book: "The Five Orders of Architecture" from the system of Vignola as arranged by Pierre Esquiez.

ARCHITECTURE 6.—Descriptive Geometry—Semester 2. **(Allen)**
Freshman II: (0 and 4)
Prerequisites: Drawing 3, 11.

The fundamental problems in descriptive geometry are studied and applied to the solution of problems in architecture. Also problems in the casting of conventional shadows of architectural forms and the theory and practice of architectural perspective are solved.

Text-book: To be selected.

Reference books: McGoodwin's "Shades and Shadows"; Lubschez "Perspective."

ARCHITECTURE 7, 8—History of Architecture—Semesters 1 and 2. (Allen)

Sophomore II: (3 and 0)

Study of historic styles and monuments of architecture, classic, mediaeval and Renaissance. This subject is given by illustrated lectures and text-book. The student is required to do research in the library and to make sketches.

Text-book: Hamlin's "History of Architecture."

ARCHITECTURE 9, 10—Cast Drawing—Semesters 1 and 2 (Allen)

Sophomore II: (0 and 2)

Prerequisite : Architecture 2.

Thorough drill in drawing groups of simple casts, pencil and charcoal rendering. Freehand perspective and accurate sketching. Brief study of anatomy. Sketching from life.

ARCHITECTURE 11, 12—Architectural Design—Semesters 1 and 2. (Allen)

Sophomore II: (0 and 14)

Prerequisites: Architecture 2, 4, 6.

A series of simple problems in design, applying classic proportions to modern buildings; rendering in water color and other mediums; criticisms.

Architectural library reference books and plate.

ARCHITECTURE 13, 14—Cast Drawing—Semesters 1 and 2. (Allen)

Junior II: (0 and 2)

Prerequisites: Architecture 9, 10.

Advanced work in the drawing of antique sculpture and from life. Any medium may be used in which the student cares to work, such as charcoal, conte, pastel, etc.

ARCHITECTURE 15, 16.—Architectural Design—Semesters 1 and 2. (Allen)

Junior II: (0 and 11)

Prerequisites: Architecture 11, 12.

A series of problems in architectural design. Composition and planning. Sketch problems. Beaux-Arts problems.

Architectural library reference books and plates.

ARCHITECTURE 17, 18.—Building Construction—Semesters 1 and 2. (Lee)

Junior II: (2 and 0)

Prerequisites: Mathematics 5, 6.

Carpentry; study of building materials, their uses and forms; carpenter's, plasterer's and painter's work, details of frame construction, hardware, estimates and specifications; problems in calculation.

Text-books: Kidder's "Building Construction and Superintendence," Part II; Kidder's "Architects' and Builders' Pocket Book."

ARCHITECTURE 19, 20—Architectural Design—Semesters 1 and 2. (Allen)

Senior II. (0 and 11)

Prerequisites: Architecture 16, 17.

Advanced problems in architectural design. Composition, planning, etc., worked up in detail. Eight and ten hour sketch problems. Beaux-Arts problems, Historic ornament.

Architecture library books and plates as reference.

Historic ornament. Architectural library books and plates as reference.

ARCHITECTURE 21, 22.—Structural Design—Semesters 1 and 2. (Lee)

Senior II: (0 and 6)

Prerquisites: Architecture 17, 18.

Preparation of complete working drawings and specification for frame and masonry buildings, detail drawings of the construction with necessary calculations. Steel and reinforced concrete design. Blue printing.

Text-book: Architectural library reference books and plates. Kidder's "Architects' and Builders' Pocket Book."

ARCHITECTURE 23, 24—Building Construction—Semesters 1 and 2. (Lee)

Senior II. (5 and 0)

Prerequisites: Architecture 17, 18.

Masonry; study of foundations, cement, lime, mortars, stone, brick, terra-cotta, details of masonry construction, fireproofing of buildings, reinforced concrete and steel construction, estimates, specifications, superintendence, problems in calculation.

Text-books: Kidder's "Building Construction and Superintendence." Part I; Kidder's "Architects' and Builders' Pocket Book."

ARCHITECTURE 25, 26—Heat and Sanitation—Semesters 1 and 2 (Lee)

Senior II: (2 and 0)

Study of the various systems of heating and ventilating of buildings, together with apparatus used in each, such as boilers, fans, etc.

Illumination of buildings.

Plumbing of buildings, including water and sewerage.

Text-book: Hoffman's "Handbook for Heating and Ventilating Engineers"; Instructor's notes.

Rooms and Equipment

The third floor of the engineering building is devoted entirely to the work in architecture. There are several rooms used for architectural design with drafting tables and lockers; freehand and cast drawing with casts, models and easels; lecture room equipped with lantern and slides and samples of building materials; library containing a large number of volumes on architectural and allied subjects with many valuable plates and complete files of all important art and architectural magazines; and office for instructors.

The office of the professor of architecture and college architect and the blue printing rooms are on the second floor of this building.

BOTANY AND BACTERIOLOGY

Professor Barre

Associate Professor Aull

Associate Professor Rosenkrans

Instructor Aull

BOTANY 1, 2.—Biology—Semesters (1 and 2) **(Mrs. Aull)**
Freshman I, III, IX, XIII: (2 and 2)

The structure and functions of the various parts of the higher seed plants, and the broad principles of metabolism, growth, and reproduction are first taken up in detail, followed by a study of the lower organisms.

The student is made familiar with the application of biological laws; and descriptions, life histories and the adaptation of representative organisms are considered. The practical work will consist of laboratory and field studies illustrating the more important phases of the theoretical work.

Text-book: "Botany with Agricultural Application."—Martin.

BOTANY 3—Elements of Forestry—Semester 1. (Rosenkrans)
Sophomore I, IX: (2 and 0)

A lecture course dealing with the general principles of forestry, together with the practical methods applied in lumbering, forest propagation, and conservation.

Text-book: "Elements of Forestry."—Moon and Brown.

BOTANY 5—Morphology of the Higher Plants—Semester 1 (Rosenkrans)

Sophomore I, IX, XIII: (2 and 2)

This course considers the general form and structure of the higher plants, and the organs and tissues which compose them. It also establishes the relationships of the various organs. A study is made of the development of the more complex plants from the simpler ones.

Text-book: "Text Book of Botany," Vol 1 Part I—Coulter, Barnes, and Cowles.

BOTANY 6—Plant Physiology—Semester 2. (Rosenkrans)

Junior I, IX, Elective: (2 and 4)

A study of the structure and functions of plants, the object being to teach the student how plants live and grow and why they are dependent on certain physical factors as light, water, air, etc.

Text-book: "Text Book of Botany," Vol. 1. Part II—Coulter Barnes and Cowles.

BOTANY 8—Plant Pathology—Semester 2—(Rosenkrans)

Senior I, IX, Elective: (2 and 2). **Pre-requisite: Botany 6.**

A systematic study of fungi with special reference to species causing diseases of economic plants. The students are taught to recognize the more common diseases, particularly in the early stages, and the whole question of prevention and practicable remedies is fully discussed. Methods of isolating, artifically cultivating, and inoculating with disease-causing organisms will be considered.

Text-book: "Fungous Diseases of Plants."—Duggar.

BACTERIOLOGY 1—General Bacteriology—Semester 1. (Aull)

Junior I; Senior III, IX: (2 and 4)

This course is designed to give the student a clear working knowledge of the bacteria, yeasts, and molds. A detailed study is made of the morphology and physiology of bacteria in relation to man and animals, and to the arts and sciences. The principal bacterial diseases of man are studied and means of control discussed.

In the laboratory bacteria are studied in their relation to food, heat, light, and disinfectants, and their relation and importance to agriculture is stressed. Several forms are studied in detail. This study consists of isolating, growing them upon the various media, staining and determining the organism. Particular attention is paid to types found in water, soil, and milk.

Text-book: Buchanan's "Bacteriology," Revised edition supplemented, by lectures, bulletins and parallel readings.

BACTERIOLOGY 2—Dairy Bacteriology—Semester 2. (Aull)

Senior I, Elective: (2 and 4)

Prerequisite: Bacteriology 1.

This course is for students who major in Dairying. The bacteria concerned in the production of milk are emphasized. In the laboratory a careful study of the conditions around the barn and dairy is carried out. Analyses are made of milk, cream, butter, and ice cream. As far as possible, all the various bacteria found in milk products are isolated and studied in detail. The students prepare their own culture media and stains, and are thus enabled to get a good foundation for future work in bacteriology.

Text-book: Heinemann—"Milk."

BACTERIOLOGY 4—Sanitary Bacteriology—Semester 2. (Aull)
Senior I, III: (2 and 4)
Prerequisite: Bacteriology 1.

This course is designed to meet the needs of those students who specialize in chemistry. A study is made of the location and protection of water supplies, the purification of water, the disposal and purification of sewage, and the isolation of bacteria, particularly pathogenic forms in water.

In the laboratory the students prepare their own media and stains. Bacteriological examinations of water, and sewage are made and a detailed study of the forms found in water and sewage carried out. A careful study is also made of various disinfectants in water purification.

Text-books: Prescott and Winslow's "Elements of Water Bacteriology," "Standard Methods of Water Analysis," and Hazen's "Clean Water and How to Get It," supplemented by lectures and technical papers.

BOTANY 102—Plant Diseases—Semester 2. (Rosenkrans)
Two-Year Agr. XII: (2 and 2).

This course will be devoted to the study of the diseases of farm crops, and methods for control and prevention will be considered. This includes directions for the preparation and application of the more common spray mixtures. Members of the class will be supplied with material, both fresh and preserved, for study.

Division Rooms and Equipment

The laboratories and class rooms are located on the first floor of the Agricultural Hall. They contain a good equipment for satisfactory work in botany, forestry, and bacteriology, including sixty compound miscroscopes, microscope slides, projection apparatus, lantern slides and charts, Zimmerman, Spencer and Minot rotary microtomes, embedding baths, balances, incubators, Arnold, hot air sterilizers, autoclaves, dry ovens, anaerobic apparatus. The students have access to a small botanical and bacteriological library.

A creditable beginning has been made in collecting a herbarium. The herbarium has been installed in new insect-proof cases. The general collection includes the Anderson herbarium of 2,500 mounted specimens, about 700 mounted specimens of American violets, and 1,000 mounted specimens of flowering plants of Central New York, as well as a set of the F. V. Coville plants of New York State. The South Carolina herbarium contains over 1,200 mounted specimens, representing the South Carolina flora, and is kept separate from the general herbarium.

CHEMISTRY

Professor Brackett

Professor Mitchell

Professor Lippincott

Assistant Professor Pollard

Assistant Professor Bender

CHEMESTRY 1, 2.—General Chemistry—Semesters 1 and 2
(Pollard and Bender)
Freshmen I, IX, XIII: (4 and 2)
Sophomores V, VI, VII, VIII: (2 and 2)

An introduction to chemistry, including the preparation and properties of the common substances, together with the consideration of the fundamental principles of chemical theory. Lecture experiments and laboratory exercises supplement the class work.

Text-books: Holmes' "General Chemistry."; Holmes' "Laboratory Manual of General Chemistry."

CHEMISTRY 1a, 2a.—General Chemistry—Semesters 1 and 2
(Pollard)
Freshmen III: (3 and 4)

This course is essentially the same as Course 1, 2 above with the addition of extra laboratory practice. The class and laboratory work is arranged to suit the students who are taking the four year Chemistry Course.

Text-books: See Course 1, 2.

CHEMISTRY 3.—Qualitative Analysis—Semester 1 (Lippincott)
Sophomores III: (0 and 10)
Prerequisites: Chemistry 1, 2, or 1a, 2a.

The properties and reactions of metallic elements and of the common inorganic and organic acids, also the qualitative analysis of a number of solutions and solid mixtures. Part of the time is set aside for theoretical work, during which time special attention is paid to the theory of electrolytic dissociation and the law of mass action.

Text-book: A. A. Noyes' "Qualitative Chemical Analysis."

CHEMISTRY 3a, 4—Quantitative Chemistry—Semester 2, (Mitchell)

Sophomore III: (0 and 10)

Junior I. (Elective): Semester 1 aand 2 (0 and 2.)

Prerequisites: Chemistry 1, 2. or 1a, 2a.

The lectures and laboratory instruction are designed to prepare students to understand the mathematical relations, and the fundamental laws of chemistry, and to illustrate the principles involved in both gravimetric and volumetric methods used in elementary analysis.

Text-book: Mahin's "Quantitative Analysis."

CHEMISTRY 5, 6—Organic Chemistry—Semesters 1 and 2. (Mitchell)

Sophomore III, IX, XIII: (2 and 2)

Junior I. Elective: (2 and 2)

Prerequisites: Chemistry 1, 2 , or 1a, 2a.

A study during the first semester of the underlying principles of organic chemistry; the more common saturated and unsaturated aliphatic hydrocarbons; alcohols and their derivaties and aldehydes and ketones.

The second semester is devoted to the study of amines, polyatomic alcohols; hydroxyacids; carbohydrates; proteins; bezene and some of its homologues and a few of the more important dyes.

The laboratory course involves the preparation and purification of compounds selected from the fatty and aromatic series for the illustration of important synthetic reactions.

Text-books: Remsen and Orndorff "Organic Chemistry"; W. R. Orndorff—"Laboratory Manual of Organic Chemistry."

CHEMISTRY 7, 8—Physical Chemistry—Semesters 1 and 2. (Lippincott)

Junior III: (3 and 4)

Prerequisites: Chemistry 1, 2. or 1a, 2a.

A systematic presentation of modern chemical theory in which special attention is paid to the following topics:—gases, liquids, and solids; the theory of solutions; reaction velocity, catalysis and chemical equilibrium; the Phase Rule; colloid chemistry; thermochemistry and elementary electro-chemistry.

The laboratory work involves qualitative and quantitative experiments illustrating the principles of physical chemistry and including practice in performing physical chemical measurements. An important feature of this course is the presentation of detailed reports based upon data obtained in the laboratory.

Text-books: Bigelow's "Physical Chemistry" and Brigg's "Laboratory Outlines in "Physical Chemistry."

CHEMISTRY 9—**Quantitative Chemistry**—Semester 1 (Mitchell)
Junior III: (0 and 4)
Prerequisite: Chemistry 4.

A continuation of Chemistry involving the analysis of limestone, clay, silicates and the products of some important industrial and metallurgical operations as coal, pig iron, steel, etc. Electrolytic methods and separations.

Text-books: Mahin's "Quantitative Analysis" and other standard reference books.

CHEMISTRY 10.—**Gas and Fuel Analysis**—Semester 2 (Mitchell)
Junior III: (Elective) (0 and 2)
Prerequisite: Chemistry 4.

This course consists in the analysis of various gases, and mixtures of gases, such as coal gas, flue gas, natural gas, air and others. Also the analysis of various fuels.

CHEMISTRY 11, 12—**Organic Chemistry**—Semester 1, (Semester 2, Elective.) (Mitchell)
Junior III. (2 and 2)
Prerequisites: Chemistry 5, 6.

A review and extension of chemistry 5, 6, the greater portion of time being given to the study of aromatic compounds.

The laboratory work is more advanced and the greater portion of the time will be devoted to quantitative organic analysis.

Text-book: Perkin and Kipping, "Organic Chemistry."

CHEMISTRY 13, 14—**Agricultural Chemistry**—Semesters 1 and 2 (Brackett)
Junior I: (2 and 0, except Group C for semester 1).
Prerequisites: Chemistry 1, 2.

This course is devoted to a study of the composition of plants and a discussion of the sources from which the plant derives its constituent elements.

Text-books: Phillips' "Fundamentals of Organic and Biological Chemistry."; Hart and Tottingham's "General Agricultural Chemistry."

CHEMISTRY 16—**Metallurgy**—Semester 2, Elective. (Brackett)
Junior III: (4 and 0)
Prerequisites: Chemistry 1, 2.

Physical properties of metals; testing metals; refractories and fluxes; combustion and thermal measurements; fuels; ore dressing; furnaces and accessories; iron ores and metallurgy of iron and steel; copper ores and smelting, extraction and refining of copper; lead ores and metallurgy, and refining of lead; zinc ores and metallurgy of zinc; gold and silver; alloys, their nature and preparation and uses.

Text-books: Wysor's "Metallurgy."; Notes on alloys.

CHEMISTRY 17—History of Chemistry—Semester 1 **(Brackett)**
Seniors I (Elective), III, IV: (2 and 0)
Prerequisites: Chemistry 1, 2-5, 6.

The study of the development of the science of chemistry from the earliest times to the present day.

Text-book: Moore's "History of Chemistry."

CHEMISTRY 18—Stoichiometry—Semester 2. (Brackett)
Senior I (Elective) and III: (2 and 0)
Prerequisites: Chemistry 1, 2.

A study of chemical equations, the various kinds in use with their meaning and value; different ways of balancing equations, calculations of various kinds involved in chemistry.

Text-book: Ashley's "General Calculations."

CHEMISTRY 19, 20—Colloid Chemistry—Semesters 1 and 2. (Pollard)
Senior III.
Prerequisite: Physical chemistry.

The general theory of colloid chemistry, with some of its applications in industrial chemistry, dying, photography, ceramics, soils, biology, food, etc.

Text-book: Bancroft "Applied Colloid Chemistry."

CHEMISTRY 21, 22—Inorganic Chemistry—Semesters 1 **and** 2. (Brackett)
Senior I (Elective), III: (2 and 0)
Prerequisite: Chemistry 1 and 2.

A review, extension and continuation of chemistry 1, with special reference to the laws and theories of chemistry, and a study of some of the rarer substances.

Text-book:

CHEMISTRY 23, 24—Technical Analysis-Thesis—Semesters 1 and 2 (Mitchell)
Senior III: Semester 1 (0 and 8); Semester 2 (0 and 8)
Senior I. (Elective): Semesters 1 and 2 (0 and 6)
Prerequisite: Chemistry 4.

The analysis of commercial fertilizers, feeding material, waters, oils, etc. The latter part of the course is devoted to thesis work.

Text-book: Methods of the Association of Official Agricultural Chemists; standard reference books on quantitative analysis.

CHEMISTRY 26.—Selected Topics in Chemistry—Semester 2 (Brackett)

Senior I (Elective), III (4 and 0).

Selected topics in inorganic, organic, industrial, agricultural and Sanitary chemistry, to suit the needs of the student.

CHEMISTRY 28.—Advanced Laboratory Practice—Semester 2.

Senior I (Elective), III (0-4-8).

Advanced laboratory practice inorganic, organic, agricultural, and sanitary, to suit the needs of the student.

Building and Equipment

Two brick buildings, each about 80 by 50 feet with two stories and a basement, connected on both floors by glass enclosed passages, are devoted to the work of this department. These buildings are steam heated, electrically lighted and well ventilated.

The south building is used almost entirely for academic work. On the first floor are six rooms: a physical chemistry laboratory, a balance room, a qualitative analysis laboratory, for sophomores, a laboratory for organic preparations and analyses for juniors and seniors, an Experiment Station Laboratory, and a small stock room communicating directly with the main stock room in the basement below. On the second floor of this building are three rooms: a laboratory for general chemistry for freshmen and sophomores beginning chemistry, a laboratory of quantitative analysis for juniors and seniors with an adjoining balance room. The laboratories throughout this building are equipped with suitable work tables and hoods fitted with water and gas connections. The basement of this building is divided into a stock room, a storage room and a room for the air pump mixer of the gasoline gas machine which supplies the building.

The north building serves partly for academic and partly for the analytical work of the Fertilizer Analysis Division of the Public State Work of the college. The first floor of this building is all given up to the latter work. There are nine rooms on this floor: one is used as the Director's office; one as a laboratory for water analysis and miscellaneous analytical work; one is used for nitrogen availability work, and adjoining this room is a small room used as an office and balance room by the chemist of the fertilizer control; the five rooms on the other side of the wide hall extending the full length of the building are devoted to the analysis of fertilizers, three of them being equipped as laboratories for the determination of phosphoric acid, potash and ammonia; one being used as a balance room, and the last as a store room, for fertilizer samples. The laboratories for fertilizer analysis are well equipped for carrying on efficiently a large amount of work simultaneously. The phosphoric acid room has, in addition to the usual equipment, a stirring machine operated by motor for use in volumetric determinations. The potash room contains an electric drying oven. The ammonia laboratory has facilities for carrying on forty-four digestions and forty-four distillations at the same time, using the Kjeldahl method. On the second floor of this building there are six rooms: two are used as lecture or class rooms, one of which can accommodate about 150 students and the other 49; one room is used as a preparation room in connection with lecture experiments; one is fitted for electro-chemical work; one is used as a chemical library, and an adjoining room as a reading room. The library contains several hundred volumes of standard books, which are partly card indexed according to the most modern system, and the reading room a dozen or more journals devoted to chemistry. The library also contains many valuable pamphlets and bulletins. Both the library and reading room are open to students as well as to members of the Department and to the College Faculty. The basement of this building contains four rooms, one of which is a safe deposit vault for storage of records and other things of value. One of the other three rooms is used as a stock room; one for the distillation of water; in one is installed the gas plants, which supply this building; and the remaining room is used as an assay laboratory.

In addition to the apparatus and chemicals usually found in all well equipped laboratories for qualitative and quantitative analysis, the quantitative laboratory for Juniors and Seniors contains an electric drying oven, and a stirring machine for volumetric phosphoric acid determination, and a motor to run the machine, and also equipment for Kjeldahl nitrogen determinations; the laboratory for physical chemistry is now equipped for the conduct of the experiments in connection with the course as now offered.

CIVIL ENGINEERING

Professor Clarke

Associate Professor Doane

Assistant Professor Still

CIVIL ENGINEERING 1, 2—Surveying—Semesters 1 and 2. (Clarke)

Sophomore V. (2 and 4)
Prerequisites: Mathematics 3, 4.

This course is designed to give the student a considerable facility in the theory and use of modern surveying instruments and methods, including the platting of notes for maps and profiles.

Text-book: Breed and Hosmer's "Principles and Practice of Surveying."

CIVIL ENGINEERING 3, 4—Surveying—Semesters 1 and 2. (Clarke, Doane, Still, Burr)

Sophomore VI, VII, VIII, Elective IX. (1 and 2)

Prerequisites: Mathematics 3, 4.

This course covers only the more simple and fundamental theory and use of the tape, transit, and level.

Text-book: Breed and Hosmer's "Principles and Practice of Surveying".

CIVIL ENGINEERING 5—Railroad Curves and Earthwork—Semester 1. (Clarke)

Junior V. (3 and 0)

Prerequisites: Civil Engineering 1, 2.

This course covers the theory and solution of problems involving simple, compound and reverse curves; and the special modifications thereof in the use of frogs. Special attention is given to the spiral transition from tangent to curve. The setting of slope-stakes and various problems of computation of earthwork from cross sections and also from contours, are thoroughly covered in this course.

Text-book: Allen's "Railroad Curves and Earthwork."

CIVIL ENGINEERING 7—Topographical Surveying and Mapping—Semester 1. (Clarke)

Junior V. (0 and 4)

Prerequisites: Civil Engineering 1, 2.

The first part of this course is devoted to the establishment of a base line and the accurate measurement thereof; the determination of the azimuth by Polaris observation; the laying out of a triangulation system to cover a certain prescribed area and the determination of all angles to the utmost possible degree of accuracy; and the taking of the topography by the stadia method, of this triangulation area.

The second part of the work of this course is the computation of the values in the triangulation system, making the angle and side adjustments of the observations. In platting the data the greatest possible degree of accuracy and neatness is demanded. The finished map is expected to show not only contours, but every detail of nature or culture; with the relief brought out by the use of water colors.

CIVIL ENGINEERING 8—Railroad Location—Semester 2 (Clarke)

Junior V. (0 and 4)

Prerequisite: Civil Engineering 5.

This course is designed to put in actual practice the theoretical principles covered during the first semester in civil engineering 5. An actual railroad survey is made between two prescribed termini, covering reconnaissance, preliminary survey, and location; the final line is run in with all curves spiraled: the grade is fixed, slope-stakes set and the amount of earthwork and total cost of construction computed.

CIVIL ENGINEERING 10—Strength of Materials—Semester 2. (Still)

Junior II, V: (3 and 0)

Prerequisite: Mechanical Engineering 3.

A study of the various building and structural materials as regards stresses, tension, compression, shearing, riveted joints, beams and columns.

Text-book: Smith's "Strength of Materials"

CIVIL ENGINEERING 12—Graphic Statics—Semester 2 (Doane)

Junior II, V. (1 and 2)

Prerequisite: Mechanical Engineering 3.

A study of the principles of graphic analysis, application of these principles to the determination of stresses in roof and bridge trusses, portals, bents, girders, the three-hinged arch, etc. This course is designed to cover all the common problems of structural design solved by graphics.

Text-book: Malcolm's "Graphic Statics."

CIVIL ENGINEERING 14—Structural Design—Semester 2. (Still)

Junior V. (0 and 4)

Prerequisite: Mechanical Engineering 1, 2.

This course is devoted for the first half of the semester to a thorough study of built-up sections, riveting, and the design of details; such as joints, bracing, latticing, supports, etc. The second half is devoted entirely to the detail design of either a plate or deck girder.

Text-book: Bishop's "Structural Design."

CIVIL ENGINEERING 16—Bridge Design—Semester 2. (Doane)

Senior V. (2 and 2)

Prerequisites: Civil Engineering 10, 12, 14.

This course is devoted to the designing and detailing of a through girder reinforced concrete highway bridge, and a through Pratt truss railroad bridge. This designs to be complete in every detail.

Text-book: Ketchum's "Structural Engineer's Hand-Book."

CIVIL ENGINEERING 17—Hydraulics—Semester 1. (Clarke)

Senior V. (2 and 0)

Prerequisite: Mathematics 6, 7.

A course covering the principles of the flow of water, with particular reference to the need of knowledge thereof in connection with the study of water supply systems and sewerage.

Text-book: Daugherty's "Hydraulics."

CIVIL ENGINEERING 18—Hydraulics—Semester 2. (Clarke)
Senior IV, VI, VII. (2 and 0).
Prerequisite: Mathematics 6, 7.

A general course in the fundamental principles governing the flow of water through orifices, weirs, pipes and channels.

Text-book: Daugherty's "Hydraulics."

CIVIL ENGINEERING 19—Strength of Materials—Semester 1. (Still)
Senior VI, VII. (3 and 0)
Prerequisite: Mechanical Engineering 1, 2.

This course is a study of the various building and structural materials and includes; stresses, tension, compression, shear, torsion, riveted joints, beams, and columns. Experimental results are used to illustrate the applications to the actual building in the field.

Text-book: Boyd's "Strength of Materials."

CIVIL ENGINEERING 21—Masonry Construction—Semester 1. (Clarke).
Senior V. (3 and 0)
Prerequisite: Civil Engineering 10, 12.

While this course gives consideration to all kinds of masonry, the most particular attention is directed toward the use of concrete, both plain and reinforced. The subject of foundations is taken up in detail, and the methods used in improving the bearing power of weak soils. Discussion is made of the fundamental principles of design applying to dams, retaining walls, bridge abutments and piers, and arches.

Text-book: Baker's "Masonry Construction."

CIVIL ENGINEERING 23—Roads and Pavements—Semester 1. (Doane)
Senior V. (2 and 0)
Prerequisites: Civil Engineering 7, 8.

This course consists of a thorough investigation into the merits and disadvantages of all different types and methods of highway construction, from dirt roads up to the highest type of hard surfaced pavement. The details of construction are covered in full, in order in so far as possible to fit the student to enter at once into the highway improvement which at this time engages so much public attention. In addition to the general problem of highway construction, this course also gives attention to the problems of grade and drainage of streets, which especially confront the municipal engineer. Students in this course must also take civil engineering 31, 32.

Text-book: Agg's "Roads and Pavements."

CIVIL ENGINEERING 24—Water Supply—Semester 2. (Clarke)
Senior V. (3 and 0)
Prerequisites: Civil Engineering 7, 8, 10, 12, 17.

A course devoted to the engineering procedure necessary to determine the quantity and quality of various sources of water supply; and the method used to improve the quality of unpotable waters; and the construction of works for the collection of water, and works for the distribution of water.

Text-book: Turneaure and Russell's "Public Water Supplies."

CIVIL ENGINEERING 26—Sewerage and Sewage Disposal—Semester 2. (Clarke)
Senior V. (3 and 0)
Prerequisites: Civil Engineering 7, 8, 10, 12, 17.

A very specific course covering all the points of theory and practice involved in the construction of a modern sewerage system, and the various methods employed to dispose of sewage in accordance with sanitary law.

Text-book: Babbitt's "Sewerage and Sewage Treatment."

CIVIL ENGINEERING 28—Engineering Relations—Semester 2. (Clarke)
Senior V. (1 and 0)

This course covers the general principles of law and ethics involved in the relations of the engineer as principal, agent, or client; and the fundamental legal features involved in the writing of contracts and specifications.

Text-book: Allen's "Business Law for Engineers."

CIVIL ENGINEERING 30—Engineering Investigations and Design—Semester 2. (Clarke).
Senior V. (0 and 4)
Prerequisites: Civil Engineering 21, 23, and registration in C. E. 24, 26.

This is a practical course in conjunction with the theoretical work given during the senior year and gives actual experience in the performance of the necessary investigations and design of structures in all those branches. In masonry; borings are made to ascertain foundations, and designs are made of bridge masonry and arches. In water-supply; a stream is gauged and rated, and the necessary surveys and designs are made for collecting, storage and distributing works. In sewerage; a field survey and actual design are made for a sewerage system for some neighboring town.

Inspection trips away from the college are planned as circumstances favor.

CIVIL ENGINEERING 31, 32 —Road Materials Testing Laboratory —Semesters 1 and 2. (Doane.)
Senior V. (0 and 3)
Prerequisites: Civil Engineering 10, and registration in C. E. 23.

In this course the student performs in the laboratory the standard tests of all materials used in highway construction. This includes tests and analyses of top-soil, bituminous materials, Portland cement, sand, stone, brick, steel, wood, drain-tile, concrete, etc. The latter part of the course is devoted to the actual design, preparation and testing of concrete and bituminous paving mixes, and instruction in the field tests of materials to regulate their quality.

This course in conjunction with civil engineering 23 is designed to fit the student for practical work in the highway engineering field.

Text-book: (To be selected.)

CIVIL ENGINEERING 34—Thesis—Semester 2. (Clarke).
Senior V. (0 and 2)

Every senior, prior to graduation, is required to prepare and submit a thesis. This may be either an original theoretical investigation; or an actual design similar to the work done in courses 16, 30, 31, and 32. The time allotted to this subject represents merely the time devoted thereto under the direct supervision of the instructor. The student is expected to put in much additional individual work.

Division Rooms and Equipment.

The collection of field instruments contains the following:

Two complete transits with solar attachments; six engineer's transits; four railroad compasses; two six-inch vernier compasses; one precise level; three twenty inch wye levels; four dumpy levels; two architect's levels; one convertible architect's level; one drainage level: six Locke hand levels; one binocular hand level: two stadia hand levels, with a supply of self-reading and target rods; two complete plane tables; a Price current meter, with steel boat and truck; sextant; aneroid barometer; flag poles; tapes; chains and all necessary accessories.

The office equipment includes planimeter, slide rules, drafting instruments, and a universal drafting machine.

The road materials laboratory contains full and complete equipment for testing stone, sand, cement, brick, all bituminous materials and top-soil. This equipment includes a Deval abrasion machine; Dorry hardness machine; Page impact machine; diamond drill and saw with grinding lap; ball grinding mill; briquette-making machines for cementation and tension tests; impact cementation machine; brick rattler; 100,000 pound Olsen universal testing machine for testing stone, brick, cement mortars and concrete in compression; moisture closet; mixing tables; steam bath apparatus; Vicat appratus ; Le Chatelier apparatus; Fairbanks tension briquette testing machine; cement, sand, and stone sieves; Ro-tap shaker; Dulin Rotarex extractor; New York Laboratory type penetrometer; ductility machine; Engler viscosimeter; dehydration and distillation apparatus for both tars and asphalts; analytical balance; flash and burning point apparatus; ring and ball apparatus; float test apparatus; hydrometers; pycnometers; balances; and all necessary accessories.

The college owns a concrete mixer which is also in the custody of the road materials laboratory, and is used for practical instruction in mixing and placing concrete.

The laboratory for the testing of materials of construction contains the following principal items of equipment: one 100,000 pound Olsen automatic universal vertical testing machine, electrically driven, and designed to test materials in tension, compression, and shear; one 3,000 pound transverse testing machine for determination of the flexural strength of short beams; one 60,000 pound Olsen torsion testing machine; one compression micrometer; one Duplex micrometer extensometer; one deflection instrument and torsion meter.

DAIRY HUSBANDRY

Professor LaMaster

Associate Professor Goodale

DAIRYING 2—Milk Products, Production and Manufacture—Semester 2. (Goodale)
Junior 1: (2 and 2)

The object of this course is to give the student a knowledge of the production, care and testing of milk and its products; also the Management and feeding of dairy cattle.

Text-book: "Productive Dairying"—Washburn.

DAIRYING 4—Dairy Cattle Judging—Semester 2. (LaMaster)
Junior I (Elective): (0 and 2)

A study of the breeds, type and characteristics of dairy cattle with practice in judging and selection of animals for production and exhibition.

DAIRYING 5, 6—Dairy Manufacturing—Semester 1 and 2. (Goodale)

Senior 1: Semester 1 (2 and 2) Semester 2 (2 and 4)
Prerequisite: Dairying 2.

This course deals with the problems of market milk and the intensive study of the manufacture of butter, cheese and ice cream.

Text-books: "Principles and Practice of Buttermaking" McKay and Larsen, "The Book of Cheese"—Thom and Fisk, "The Book of Ice Cream"—Fisk.

DAIRYING 7—Creamery Organization and Management—Semester 1 (Goodale)

Senior 1: (3 and 0) Elective
Prerequisite: Dairying 2.

A thorough study of the organization and operations of commercial creameries, creamery accounting, and marketing of dairy products.

Text-book: "Management of Dairy Plants"—Mortensen

DAIRYING 9—Dairy Cattle Feeding and Management—Semester 1 (LaMaster)

Senior 1: (2 and 2) Elective.
Prerequisite: Dairying 2.

This course is an advanced study of feeds, care, management and development of dairy cattle and methods of milk production.

DAIRYING 10—Dairy Cattle Breeding—Semester 2 (LaMaster)

Senior 1: (1 and 2) Elective.
Prerequisites: Dairying 2 and Agronomy 5.

A study of the practical application of the principles of genetics in its relation to dairy cattle breeding. This will be followed by an extensive study of the leading families and individuals of the major dairy breeds.

Text-book: To be selected.

DAIRYING 12—Advanced Dairy Farming—Semester 2 **(LaMaster)**

Senior 1: (2 and 2). Elective.
Prerequisite: Dairying 2.

A study of dairy herds based on milk and feeding records, dairy farming and its relation to soil fertility, and dairy farm management. An advanced course in dairy farming.

Text-book: "Farm Dairying"—Larsen

DAIRYING 102—Dairy Farming—Semester 2. (Goodale)

Two year Agriculture XII: (3 and 2)

A course which takes up the production and care of milk on the farm with a practical study of the use of dairy equipment and the manufacture of dairy products on the farm, and in the creamery.

Text-book: "Milk and its Products."—Wing.

Division Rooms and Equipment

The live stock consists of a large herd of registered Jersey cattle, registered Holstein-Friesians, and registered Guernseys.

These cattle are housed in a splendid modern dairy barn with a capacity of one hundred and twenty cows. This barn has the most sanitary equipment throughout.

The dairy laboratories are equiped for milk testing, separator demonstrations, butter making, etc.

The Clemson College Creamery has complete equipment for the making of butter, cheese and ice cream and the cooling and the pasteurization of milk. This creamery is in continuous operation for the entire year, and offers exceptional advantages to students who wish to fit themselves for commercial creamery and ice cream work.

DRAWING

Professor Lee

Associate Professor Klugh

Instructors Harris and Burr

DRAWING 1—Freehand Drawing—Semester 1. (Harris)
Freshman I, III, IX, XIII. (0 and 2.)

The course is designed, primarily, to assist the student where drawing is needed in his work in agricultural subjects. Proportion and detail are stressed. The course consists in fullsized, enlarged and reduced drawings of irregular shaped objects and in outlining and shading of geometrical figures.

DRAWING 3—Freehand Drawing—Semester 1. (Harris)
Freshman II. (0 and 2).

This course is the same as the first semester of drawing 1.

DRAWING 5, 6 —Freehand Drawing—Semesters 1 and 2. (**Harris**)
Freshman V, VI, VII, VIII, XI. (0 and 2).

A course, designed to meet the needs of the engineer, who must express himself in the clearest and quickest way to workmen under his charge.

During the first semester the student gets a thorough drill in the principles of perspective. The second semester is devoted to drawing machine parts, particular attention being given to the development of the imagination.

The first semester is prerequisite to the second.

DRAWING 8—Mechanical Drawing—Semester 2. (Harris).
Freshman I, III, IX, XIII, (0 and 2)

Lettering, exercises in the uses of instruments, orthographic projection, scale drawings from the text; design of a small farm building, tracing and blue printing.

Text-book: French and Ives' "Agricultural Drawing."

DRAWING 9, 10 —Mechanical Drawing—Semesters 1 and 2. (Klugh and Burr)
Freshman V, VI, VII, VIII, (0 and 2)

Exercises in the use of instruments and in applied geometry; Reinhardt lettering; conventional use of lines; orthographic projection; scale working drawings from the text; finding other views of objects from given views; working drawings from sketches; working drawings from parts of machines; assembled views from working drawings of parts; tracing; blueprinting.

The first semester is prerequisite to the second.

Text-book: French's "Engineering Drawing."

DRAWING 11—Mechanical Drawing—Semester 1. (Klugh)
Freshman II. (0 and 2)
Same as first semester Drawing 9.

DRAWING 13—Descriptive Geometry—Semester 1. (Klugh)
Sophomore V, VI, VII, VIII. (0 and 2)
Prerequisites: Drawing 6, 8

Study and delineation of projections of points, lines, plane surfaces and solids, and their various relations; tangencies, intersections, and developments under normal and sub-normal conditions; original exercises required to illustrate topics under consideration.

Text-book: Smiths "Practical Descriptive Geometry."

DRAWING 14—Mechanical Drawing—Semester2. (Klugh)
Sophomore VI, VII, VIII. (0 and 2)
Prerequisites: Drawing 6, 10, 13.

Continuation of work in Drawing 10 in orthographic projection; intersection and development problems, showing relation of plan and elevation to developed surfaces, isometric and perspective drawing; working drawings from machines or parts of machines from sketches and specifications. Elementary principles of machine design. Tracing and blue printing.

Text-book: French's "Engineering Drawing."

DRAWING 16—Structural Drawing—Semester 2. (Klugh)
Sophomore V. (0 and 2)
Prerequisites; Drawing 6, 10, 13.

Study of structural symbols and elementary structural design. Reading of structural drawings; tracing and blue printing.

Text-book: French's "Engineering Drawing;" Instructor's notes and problems.

DRAWING 17, 18—Machine Design—Semesters 1 and 2. (Klugh)
Junior VI, VII. (0 and 3).
Prerequisite: Drawing 14.

One hour each week is devoted to the study of the theory of spur, bevel, and screw gearing; lobed and elliptic wheels; epicyclic trains; ratchet motions; link motions; quick return motions; and cam motions. A series of lectures covering some of the practical problems of engineering is given in connection with this course.

Two hours each week are devoted to practical problems illustrating the principles studied, to working drawings in design, and to tracing and blue printing.

Text-books: Keown's "Mechanism", French's "Engineering Drawing."

Rooms and Equipment

The division of drawing and architecture is located on the second and third floors of the engineering building.

On the second floor are several large rooms devoted to free-hand drawing; engineering drafting and design; locker room; office for the head of the division and three blue print rooms equipped for printing by sun and electricity. A 42-inch Pease automatic printing, washing and drying blue-print machine is installed in one of these rooms. The rooms are equipped with drafting tables, individual lockers, plaster casts, parts of machines useful in design and blue prints.

Each student is required to own a complete outfit of drawing tools, such as set of instruments, board, T-square, and other material. This outfit must be first-class in every respect, must be approved by the instructor in charge, and no second-hand or inferior tools will be permitted to be used by an engineering student; the agricultural freshman, however, may use the cheaper instruments. Students are incapable of judging drawing instruments and make a mistake in buying low-priced instruments which appear to be of good quality, but are inferior and will not give good service, soon necessitating the purchase of another set. Students are advised to buy these tools at the Cadet Exchange where they can see samples and make selections. On account of the large number of sets of instruments bought by the college each year, a very large discount is obtained and given to the student. The more expensive and less used instruments are kept in the office for the use of students needing them.

ECONOMICS AND SOCIOLOGY

Professor Pakenham

ECONOMICS AND SOCIOLOGY 1 —Political Economy. —Semester 1—(Pakenham)

All seniors: (2 and 0)

The course comprises a study of the principles underlying and the laws governing economic action and reaction. Special attention is paid to consumption, production, price, fixation, rent, wages, interest, and current problems.

Text-book: Ely's "Outlines of Economics."

ECONOMICS AND SOCIOLOGY 2—Sociology—Semester 2—Pakenham)

All seniors: (2 and 0)

This course is a study of the elementary principles of sociology and of some of the special social problems, considered in the light of general principles.

Text-book: Ellwood's "Sociology and Modern Social Problems."

EDUCATION

Professor Crandall

Associate Professor Sisk

Assistant Professor Washington

Assistant Professor Wilson

Undergraduate Courses

EDUCATION 1—Introduction to Education—Semester 1. (Crandall)

Junior I, IX, Elective: (3 and 0)

A general introductory course required of all students majoring in Education and Agricultural Education. This course takes up a survey of the general field of Education for the purpose of giving the student a background for more specialized courses in Education.

EDUCATION 3, 4—General Psychology—Semesters 1 and 2. (Sisk)

Senior, All Courses, Elective: (2 and 0)

The subject is approached from the standpoint of behavior and will study the more practical phases of applied psychology.

Text-book: "Fundamentals of Psychology"—Pillsbury.

EDUCATION 5—Educational Psychology—Semester 2. (Sisk)
Junior I, IX, Elective: (2 and 2)

An elementary course in Educational Psychology required of all students majoring in Education or Agricultural Education. Topics: The learning process in terms of situation, bond, and responses; types of learning; effect of attitude, feeling, and method on the process of learning; the laws of retention; reflexes, instincts, and habits; individual differences in relation to the performances of simple tasks, the normal surface of distribution, and methods of grading students; the physiological bases of learning; instincts and their meaning.

EDUCATION 7—Principles of Teaching—Semester 1. (Crandall)
Senior I, IX, Elective: (3 and 2)
Prerequisites: Education I, 5.

This is a course treating of the principles of teaching high school subjects. Such topics as the project method of teaching; lesson types; teaching exercises—recitation, laboratory, supervised study, demonstration, field trip; examinations; type studies; and lesson planning, are studied in this course.

EDUCATION 8—Special Methods in Teaching Agriculture—Semester 2. (Crandall)
Senior I, IX, Elective: (3 and 2)
Prerequisites: Education 1, 5, 7.

This course is planned primarily for students who intend to teach vocational agriculture. The following topics will be considered: The use of surveys in teaching agriculture; planning courses of study; agricultural curriculum; the project in agricultural teaching; community activities; class rooms, equipment, and materials; and a plan for each year's work.

EDUCATION 10—Special Methods in Teaching High School Subjects—Semester 2. (Sisk)
Senior IX: (3 and 2)
Prerequisites: Education 1, 5, 7.

Among the topics to be considered are the objectives of different high school subjects, course building, methods of evaluating instruction in high school subjects, comparative study of text books and laboratory manuals, and the adaption of high school courses to local conditions.

EDUCATION 13, 14—Practice Teaching—Semesters 1 and 2. (Crandall, Sisk, Washington, Wilson)
Senior I, IX, Elective: (3 and 0)
Prerequisites: Education 1, 5, 7.

This course is required of all students who major in Education or

Agricultural Education. The course consists of observation and supervised teaching in high school departments in public high schools located near the college.

Graduate Courses

Graduate courses are offered in Education to aid persons preparing for or engaged in the following types of positions:

1. Teachers, principals, and superintendents of public schools.
2. Instructors in colleges and universities.
3. Teachers of agriculture.
4. County superintendents and other people interested in administrative and supervisory work.

A candidate for the Master's degree in Education must have had an undergraduate major of at least fifteen semester hours in Education, or its equivalent. Graduates of an approved college or university may enroll in graduate work in Education and may take undergraduate and graduate courses in Education as parallel courses, unless the undergraduate courses are definite prerequisites to the graduate courses.

One year of successful experience in teaching may be accepted in lieu of the practice teaching requirement in a undergraduate major in Education.

EDUCATION 201 —Advanced Educational Psychology—Semester 1 (Sisk)
(3 and 0)
Prerequisite: Education 5.

The following topics will be discussed: Instincts, reasoning, imitation, suggestion, motivation, drill work, transfer of training, and the physiological aspects of psychology.

EDUCATION 203 —Tests and Measurements—Semester 1. (Sisk)
(3 and 0)

This course will include a general survey of the scope and purpose of intelligence and educational tests. In addition to furnishing experience in the use of tests, the following topics will be discussed: Construction of tests, puality of scales, derived scores improving examinations, and statistical methods. Assignments will include both reading and laboratory experiments.

EDUCATION 205 —Secondary Education—Semester 1. (Crandall)
(3 and 0)

The aims of secondary education, secondary-school population, curricula of the secondary schools, and the junior high school are among the topics considered in this course.

EDUCATION 207—High School Administration—Semester 1.
(Crandall)
(3 and 0)

High school superintendents and principals should find this a profitable course. Among the topics to be considered are the school plant including buildings, supplies, and equipment; the teaching corps, its selection, supervision, promotion and dismissal; curricula and courses of study; the program of studies; classification and promotion of pupils; guidance of pupils; extra-curricular activities; administration and supervision of mental and educational tests; records and reports; and accrediting high school work.

EDUCATION 202—Statistical Methods Applied to Education
—Semester 2 (Crandall)
(3 and 0)

The statistical methods commonly applied in the interpretation of educational data are studied in this course.

EDUCATION 204—Principles of Teaching—Semester 2. (Crandall)
(3 and 0)
Prerequisites: Education 7.

The fundamental aims of good teaching, the problem-project method of teaching, job analysis as an aid in teaching, and the technique of teaching involved in the solution of a problem are some of the topics treated in this course.

EDUCATION 206—Public School Administration and Supervision
—Semester 2. (Wilson)
(3 and 0)

The common school district and its limitations; the county units of school administration and supervision; the possibility of the natural community in administering and supervising public education; the authority and function of the state in administering and supervising public education; factors affecting consolidation; participation of the Federal government in public education; methods of financing public schools; bases of distributing public school funds, are the topics discussed in this course.

ELECTRICAL ENGINEERING

Professor Dargan

Professor Rhodes

ELECTRICAL ENGINEERING 1—Electrical Engineering—Semester 1. (Rhodes and Burr).
Juniors VI, VII. (3 and 3)
Prerequisites: Mathematics 6; Physics 5, 6.

A study of electric and magnetic circuits, including fundamental laws for both direct and alternating current and the construction, operation and standard methods of testing electrical measuring instruments.

Text-book: Dawes' "Electrical Engineering," Vol. I.

ELECTRICAL ENGINEERING 2—Electrical Engineering—Semester 2. (Rhodes and Burr)
Junior VI, VII. (3 and 3)
Prerequisite: Electrical Engineering 1.

A continuation of electrical engineering 1 with an introduction to direct current generators and motors.

Text-book: Dawes' "Electrical Engineering," Vols. I and II.

ELECTRICAL ENGINEERING 3—Electrical Engineering—Semester 1. (Dargan).
Senior VI. (5 and 4)
Prerequisites: Electrical Engineering 2, Mathematics 7, Mechanical Engineering 1, 2.

A study of direct and alternating current dynamos and equipments including fundamental laws, construction, operation and testing.

Text-books: Dawes' "Electrical Engineering," Vols. I and II, Christie's "Electrical Engineering." Bulletins and reference books.

ELECTRICAL ENGINEERING 4—Electrical Engineering—Semester 2. (Dargan)
Senior VI. (5 and 5)
Prerequisite: Electrical Engineering 3.

A continuation of electrical engineering 3 with a brief introduction to the study of generation, transmission, distribution and utilization of electrical energy.

Text-books: Same as for electrical engineering 3.

ELECTRICAL ENGINEERING 5—Electrical Engineering—Semester 1. (Dargan and Rhodes)
Senior VII. (3 and 2)
Prerequisites: Electrical Engineering 2, Mathematics 7, Mechanical Engineering 1, 2.

Similar to electrical engineering 3, but arranged for mechanical engineering students.

Text-books: Dawes' "Electrical Engineering," Vols. I and II.

ELECTRICAL ENGINEERING 6—Electrical Engineering—Semester 2. (Dargan and Rhodes)
Senior VII. (3 and 2)
Prerequisite: Electrical Engineering 5.

Similar to electrical engineering 4, but arranged for mechanical engineering students.

Text-books: Dawes' "Electrical Engineering" Vol. II.

ELECTRICAL ENGINEERING 7—Electrical Engineering—Semester 1. (Dargan and Rhodes)
ter 1. (Dargan, Rhodes and Burr)
Prerequisites: Mathematics 6; Physics 5, 6

A brief course covering fundamental principles and tests of the more important electrical equipment and applications.

Text-book: Gray's "Principles and Practice of Electrical Engineering."

ELECTRICAL ENGINEERING 9—Design—Semester 1. (Rhodes).
Senior VII. (0 and 2)
Prerequisites: Drawing 18; Electrical Engineering 2.

An analytical and graphical study of the principles of construction of electrical machinery through a series of problems in design. Students in this subject must also take electrical engineering 5.

Text-book: Gray's "Electrical Machine Design."

ELECTRICAL ENGINEERING 10—Design—Semester 2. (Rhodes)
Senior VI. (0 and 2)
Prerequisites: Electrical Engineering 3; Drawing 2.

Similar to electrical engineering 8 but arranged for electrical engineering students. Students in this subject must also take electrical engineering 4.

Text-book: Gray's "Electrical Machine Design".

Division Rooms and Equipment.

Electrical Instrument Laboratory. The electrical division occupies two single-story brick buildings and includes in its equipment the following instruments and apparatus: Leeds and Northrup potentiometer, with certified standard resistances for measuring both current and potential; Kelvin deka-ampere balance; Weston laboratory standard voltmeter with multipliers; two motor-generator sets; three small motors; fourteen galvanometers; fifteen standard resistance sets; three standard resistance and Wheatstone bridge sets; dial decade standard test set; four meter-wire bridges; four standard condensers; commercial condensers: Weston standard cells; ammeters; voltmeters; rheostats; key switches; storage cells; primary cells, and other miscellaneous apparatus; also a quantity of special apparatus made in the college shops and laboratories.

Dynamo Laboratory. The lecture room has raised seats, and is equipped with instruments, illustration models, and other demonstration apparatus.

This laboratory equipment includes the following:

Voltmeters: twelve Weston, six General Electric Co. Thomason, one Jewell, one Whitney, one Ayrton and Perry, one Hoyt, one Kelvin electrostatic, one Cardew.

Ammeters: Eight Weston, six Weston millivoltmeters with current shunts, twelve General Electric Co. Thomson, one General Electric Co. hot wire, one Westinghouse portable, one Siemens electro-dynamometer, one Jewell.

Wattmeters: Six Weston indicating, five General Electric Co. Thomson indicating, four General Electric Co. Thomson watt-hour meters, one General Electric Co., one Fort Wayne and one Westinghouse induction watt-hour meters.

Miscellaneous Instruments: Tachometers, speed counters, stop watches, current and potential transformers for instruments, frequency meters, etc

Direct Current Dynamos: One 17 kw Lundell, one 15 kw. Mather, one 2.5 kw. Crocker-Wheeler, three 2 kw Kester, one 15 hp. Kester, one 10 hp Kester, two arc light generators, one 4 hp. Westinghouse, one 25 hp. General Electric Co., one 1 kw. General Electric Co., one 7 1-2 kw. Westinghouse.

Alternating Current Apparatus: One 15 kva. General Electric Company single, two, three and six phase revolving field generator, complete with marble switch board and full set of indicating instruments; one 7 1-2 kva. General Electric Company single, two and three phase rotary converter; two 15 kva revolving field synchronous alternators, also one squirrel cage rotor with starting compensator and one phase wound rotor with drum controller and resistor; five General Electric Company single, two and three phase induction motors; one Wagner three phase induction motor; one Wagner repulsion induction motor; three 3 kva and three 5 kva constant potential transformers; one constant current transformer; two 5 kva Scott transformers; General Electric Company condensers and assortment of coils, models, etc.

Miscellaneous: 3-ton portable crane, prony brake, rheostats, drum controllers, circuit breakers, switches, fuse testing apparatus, lightning arresters; etc.

ENGLISH

Professor Daniel

Professor Bradley

Assistant Professor Sease *

Instructors—Withers, Moffatt, Harris, Coker

ENGLISH 1, 2—Composition and American Literature—Semesters 1 and 2. (Withers, Moffatt, Coker)

Freshman: All courses: (3 and 0)

This course, while it presupposes a knowledge of English grammar and syntax, gives a review of the subject and, in addition, a course in composition and rhetoric, embracing punctuation, the sentence, diction, and letter writing. Students are taught the use of dictionaries, encyclopedias, and other reference books.

American Literature. One period a week is given to the study ot American literature. The historic development, the influences that gave distinctive characteristics to the literature of each period, the lives of the chief writers, a critical study of selections from each and a class-room reading of many other selections make up the principal work of the course.

Supplementary Reading. A supplementary reading course embracing some of the best works of the leading American authors is required, and written reports are made upon these. Every effort is made to inspire the student with a love for good literature, and special inducements are offered to those who do reading in addition to that required.

Text-books: "Composition for College Students"—Thomas, Manchester, Scott; "A College Handbook of Writing"—Woods; "Three Centuries of American Poetry and Prose"—Newcomer-Andrews-Hall; Webster's "Secondary School Dictionary" or a book of higher grade; and ten or more selections from American Literature.

ENGLISH 3, 4—Rhetoric and English Literature—Semesters 1 and 2—(Bradley and Withers)

Sophomore: All courses: (3 and 0)

Prerequisites: English 1, 2.

The work of the first semester comprises a study of the whole composition, the development of the paragraph, a review of punctuation, and a careful study of the grammatical and rhetorical construction of the sentences. The work of the second semester takes up the consideration of the kinds of writing, giving special attention to exposition and description. Many of the themes are discussed in class, and consultations are held with students for individual discussion.

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* Died December 12, 1923.

Text-books: "English Composition"—Greenough and Hersey; "Century Handbook of Writing."

Two periods a week throughout the session.

English Literature. The work in English literature comprises a general historic survey of English literature from the Anglo-Saxon period to the Victorian Age. It makes a class-room study of one or more selections from representative authors of each period, and requires parallel reading from other writers. The selections—made from ballads, different forms of poetry, the drama, prose fiction, and the essay—illustrate the stages of the development of the literature. Parallel readings are assigned on which both oral and written reports are required.

Text-books: "Twelve Centuries of English Poetry and Prose" by Newcomer and Andrews; Long's "English Litature"; Webster's "Secondary School Dictionary" or one of higher grade.

One period a week throughout the session.

ENGLISH 5, 6—Technical Writing, Public Speaking, Argumentation—Semesters 1 and 2—(Daniel and Bradley).

Junior: All courses: (2 and 0)

Prerequisites: English 3, 4.

Technical Writing—(Bradley)—A text-book on technical writing is used as a foundation and guide for the work. Students are required to make reports on experiments, to submit plans for construction, to draw specifications and contracts, and to make reports of investigations. Specimens of technical writing are analyzed and studied as models.

Text-books: "Technical Exposition" Thompson, "Century Handbook of Writing;" Webster's "Secondary School Dictionary."

One period a week for first and second semesters.

Public Speaking—(Daniel)—In this course in public speaking a text-book is used for a study of the theory of the subject, but most of the work is practical, stressing correct pronunciation, clear enunciation, and direct natural delivery. Selections are memorized for practice. Original speeches are prepared and delivered. Extemporaneous speaking is required.

Text-book: "The Elements of Public Speaking"—Houghton.

One period a week for the first semester.

Argumentation—(Daniel)—In the course in argumentation instruction is given in selecting, stating, and defining questions for debate, in securing and testing evidence, in making briefs, and in presenting the argument. Models are used for guidance, but original briefs and arguments are required.

Text-book: Foster's "Argumentation and Debating."

One period a week for the second semester.

ENGLISH 7, 8—Journalism, Dramatic Literature—Semesters 1 and 2. (Daniel)

Senior: Elective: (2 and 0)

Prerequisites: English 5, 6

Journalism: Text-books are used as the basis of the course in Journalism which is designed to train students in the preparation of technical articles for the general reader and to help those who expect to become leaders in industrial and economic life to do occasional writing for newspapers and other publications.

Text-books: "Special Feature Articles"—Bleyer; "Newspaper Editing and Writing"—Bleyer.

Two periods a week for the first semester.

Dramatic Literature. The course in dramatic literature gives a brief survey of the development of the drama followed by a study of some of Shakespere's plays and a modern play. Some time is also devoted to a study of present day literature. Occasional papers are required.

Text-books: To be selected.

Two periods a week for the second semester.

ENGLISH 11—Business Law—Semester 1. (Daniel)

Junior: Non R. O. T. C. (2 and 0)

The course in business law seeks to fix legal principles in the student's mind, to lead him to realize the limitations of the legal knowledge of the layman, to give definite ideas as to how laws operate in actual practice, to prepare him to carry on business transactions with such care that he may avoid legal difficulties.

The course begins with a brief survey of the origin, purpose and development of laws; then takes up a study of contracts, sales, agency, negotiable instruments, partnership, corporations, personal, property, and real property.

Problems from actual cases are discussed in class, the students taking opposing sides. Contracts, notes, mortgages, checks and other papers are written and discussed.

Text-book: "Business Law"—Conyington-Bergh

ENGLISH 101, 102—Grammar and Composition—Semesters 1 and 2. (Harris)

Two.Year Agr. XII: (4 and 0)

Two-Year Textile XI: (4 and 0)

This course comprises a thorough review including, in addition, a comprehensive drill in punctuation, a compilation and correction of common errors, and training in correspondence. Considerable time is devoted to the study of words and sentences with the view of giving the power to plan and present thoughts clearly and concisely.

The students are required to read and report on books related to their several courses.

Text-books: "Effective English Expression", "The Century Handbook of Writing"

ENGLISH 103, 104—Composition and Literature—Semesters 1 and 2. (Daniel)

Two-Year Agr. XII: (4 and 0)
Two-Year Textile XI: (4 and 0)

Same as course 1, 2.

The work given in the second year of the Two-Year Agricultural and the Two-Year Textile course is a continuation of the studies of the first year but is of advanced grade. Instruction is given in business correspondence, in Parliamentary practice, and in public speaking. Parallel reports are required.

Text-books: Wood's "College Handbook of Writing," Webster's "Secondary School Dictionary" or a dictionary of higher grade, and such books as may be assigned for reading.

GEOLOGY AND MINERALOGY

Professor Calhoun.

GEOLOGY 1, 2—Agricultural Geology—Semesters 1 and 2. (Calhoun).

Sophomore I: Semester 1 (3 and 0); Semester 2 (0 and 2)

In this course geology is considered in its practical relation to agriculture. The student becomes familiar with the soil-making rocks and minerals, the influence of the various mineral constituents in rocks on the texture of soil, the natural mineral fertilizers, and the formation of soils from rocks . The question of the relation of underground water to wells, springs, artesian wells, to drainage problems, and to soil water is studied. The classes of soils derived from rivers, wind action, and glacier deposits are taken up. The principles and methods of making soil maps are explained. Topographical and geological maps are studied chiefly with reference to agricultural problems.

Text-book: "Agricultural Geology"—Emerson

GEOLOGY 3—Engineering Geology—Semester 1. (Calhoun)

Junior V: (2 and 0)

A brief course in which the practical application of geology to engineering is emphasized. Topographical and geological maps are used in connection with the text book.

Text-book: "Elements of Engineering Geology"—Ries and Watson.

GEOLOGY 5, 6—Chemical Geology—Semesters 1 and 2. (Calhoun)
Senior III: (2 and 0)

In this course structural geology, the theory of ore deposits, and the economic side of geology are emphasized. Special stress is laid upon the action of underground water in forming ores and veins. The theories of the formation of various classes of rocks are considered and special attention is given to that side of historical geology which enables the chemists to recognize certain horizons which carry minerals and ores of economic importance.

Text-book: "Elements of Engineering Geology"—Ries and Watson.

GEOLOGY 7, 8—Mineralogy—Semesters 1 and 2. (Calhoun)
Junior III, Senior I, IX, Elective: (2 and 2)

A comprehensive course in crystallography, physical, and chemical mineralogy, and systematic, descriptive and determinative mineralogy. Crystallography is taught by lectures and text book, with laboratory work based on the collection of models and natural crystals; also physical, optical, and chemical properties of minerals, and descriptive mineralogy covering the more important species. Much of the laboratory work is devoted to the determination of minerals by means of their physical and chemical properties, by comparison with labeled specimens of the systematic collection, and by the use of unlabeled collections for practice in identifying minerals at sight. This course gives a sufficient knowledge of mineralogy for the geologist, metallurgist, mining engineer, or chemist and will enable the student to identify readily all but the rarer minerals.

Text-book: "Mineralogy"—Moses and Parson.

GEOLOGY 10—Meteorology—Semester 2. (Calhoun)
Senior I, IX, Elective: (2 and 0)
Junior, All Courses Non R. O. T. C. (2 and 0)

A course designed to give the student an adequate conception of the use of meteorological instruments, weather maps, and the general principles of meteorology and climatology as applied to the growing of crops.

Text-book: "Agricultural Meteorology"—Smith.

GEOLOGY 101, 102—General Science—Semesters 1 and 2.
Two-Year Agr. XII: (3 and 0)

A course adapted to the needs of the short course agricultural students and given by the Divisions of Geology, Botany, and Physics.

Division Rooms and Equipment

The Division of Geology and Mineralogy occupies three rooms on the second floor of the Agricultural Building.

The systematic collections contain about 2,500 labeled specimens of rocks, minerals, and fossils. These are exhibited in glass cases in the laboratory and the museum, and are available to students and the public. A collection of the minerals and rocks of South Carolina is a prominent feature of the exhibit. There is also an unlabeled collection of minerals for practice in identifying species at sight, and unlabeled collections of the most important minerals are provided for determinative work in the laboratory.

The laboratory is supplied with water, gas and all apparatus and reagents necessary for the determination of minerals by means of their chemical and physical properties.

The class room is supplied with large physical wall maps of the world and of all continents, a complete series of topographic contour maps, furnished by the United States Geological Survey, an 18 inch terrestrial globe, a 20 inch relief globe, a set of geological and geographical relief models, and over a thousand lantern slides, stereographs, and photographs.

HISTORY

Professor Holmes

HISTORY 1—American Government—Semester 1—(Holmes and Pakenham)

Freshman: All Courses: (3 and 0)

This course presupposes familiarity with the elementary principles of civics as given in the high schools.

The course develops the historical background of our government, traces the growth of the Constitution, describes the actual workings of the various elements of our government, and gives special attention to the defects of our system and to suggested remedies.

A supplementary reading course embracing the standard works on American government is required, and written reports are made upon these.

Text-book: Munro's "The Government of United States."

HISTORY 2—Modern and Contemporary History—Semester 2—(Holmes and Pakenham)

Freshman: All courses: (3 and 0)

This course requires an intensive study of European history during the nineteenth and twentieth centuries. Emphasis is laid on the social and economic changes, on the development of nationalism and democracy, on economic imperialism, on the causes and results of the World War, and on world relations.

A feature of the course is the assignment of simple problems to students, who are required to find sources of material and to make written or oral reports of their reading.

Text-book: Schapiro's "Modern and Contemporary European History."

HORTICULTURE

Professor Newman

Associate Professor Hoffmann

HORTICULTURE 1 —Fruit Growing—Semester 1. (Hoffmann)
Junior 1: (2 and 2).

General study of fruits with particular reference to the home orchard sites, soils, propagation, planting, pruning, spraying, and varieties.

Text-book: "The Principles of Fruit Growing"—Bailey.

Required equipment—One pair hand pruning shears and 1 budding knife.

HORTICULTURE 2 —Olericulture—Semester 2. (Hoffmann).
Junior 1: (1 and 2.)

Principles and practices relative to the production of vegetables for home use. Construction and management of cold frames and hotbeds. Practical work in planting and caring for a garden.

Text-book: "Vegetable Gardening"—Watts.

HORTICULTURE 3—Systematic and Commercial Pomology—Semester 1. (Hoffmann)
Senior I, Elective: (2 and 2)
Systematic—1st half 1st Semester.
Commercial—2nd half 1st Semester

Systematic includes the classification, description, and nomenclature of native and sub-tropical fruits; identification with reference to relationship and natural classification of varieties and judging and displaying of fruits.

Textbook: Systematic Pomology—Waugh.

Commercial deals with practical problems pertaining to fruit growing; establishment and management of large commercial orchards, inter-cropping, cover crops, marketing, etc. Commercial orchards visited.

Text-book: "Productive Orcharding"—Sears.

Required equipment: One pair pruning shears, saw, and budding knife.

HORTICULTURE 4 —Small Fruits—Semester 2. (Hoffmann)
Senior 1, (Elective except for Horticultural Majors) (2 and2)

Propagation, culture, harvesting and marketing of the blackberry, dewberry, grape, raspberry, strawberry, and other small fruits.

Text-book: "Productive Small Fruit Culture"—Sears.

HORTICULTURE 6—Landscape Gardening—Semester 2 (Newman)
Senior 1 Elective: (2 and 2)

A study of the principles of landscape art with reference to the improvement of home and school grounds and park areas. Mapping, designing and a study of decorative plants, their indentification and adaption to landscape work .

HORTICULTURE 7, 8—Truck and Market Gardening—Semester 1 and 2 (Hoffmann)
Senior 1 Elective: (2 and 2)

Principles and practices of commercial vegetable growing on a large scale as well as forcing crops in the greenhouse and in frames. Special attention is given to the trucking practices in this State, with particular reference to the development and management of truck farms and market gardens, planting, cultivation, fertilization, harvesting, grading, and marketing. This course combines both systematic and commercial study. Commercial sections visited.

Text-book: "The Principles of Vegetable Gardening,"—Bailey
"Vegetable Forcing,"—Watts.

HORTICULTURE 9—Plant Propagation and Nursery Management—Semester 1. (Newman)
Senior 1 Elective: (2 and 2)

This course includes the study of methods of propagating fruit trees, shrubs and the various kinds of flowering plants. The student is given practical instruction in the propagation of these plants in the field as well as in the greenhouse. The nursery consists of plantings of various kinds of deciduous and evergreen shrubs as well as the pome and stone fruits.

Text-book: "The Nursery Manual"—Bailey.

HORTICULTURE 10—Thesis.—Semesters 1 and 2.
Senior 1.

Special subject requiring independent investigations by students specializing in Horticulture. Results submitted in written form.

HORTICULTURE 101, 102—Fruit and Vegetable Growing—Semester 1 and 2 (Hoffmann)
Two-year Agr. XII: (2 and 2)

First semester devoted to the growing of fruits for home use, and includes a study of orchard sites, planting, propagation, pruning, and spraying In the second semester the principles and practices involved in the growing of vegetables for home use are taken up. A garden is planted and cared for by the students

Text-book: Horticulture—Davis

Required Equipment: 1 pair of hand pruning shears

"Vegetable Gardening"—Watts.

Division Rooms and Equipment

The division is well equipped with orchards, greenhouses, gardens, vineyard, and a cannery. The facilities for instruction purposes include ample lecture rooms, laboratories, and practice workhouse thereby making it possible for the division to offer prospective students in Horticulture excellent opportunities for pursuing a course in Horticulture.

MATHEMATICS

Professor Martin

Professor Shanklin

Assistant Professors Hunter and Johnstone

Instructor Harris

MATHEMATICS 1—Plane Trigonometry—Semester 1—(Shanklin, Johnstone, Harris).

Freshman: I, IX, Elective: (3 and 0)

Prerequisite: Algebra through quadratics, Plane Geometry.

This course covers plane trigonometry.

Text-book: Crawley and Evans-"Trigonometry."

MATHEMATICS 2—Mathematics for Agriculture and General Science—Semester 2. (Shanklin, Johnstone, Harris)

Freshman: I, IX, Elective:

Prerequisite: Mathematics 1.

This course embraces the study of graphical representations of statistical data, statistics, small errors, conic sections, empirical equations, progressions, anuities, averages and correlations.

Text-book: "Mathematics for Agriculture and General Science"—Kenyon and Lovitt.

MATHEMATICS 3—Plane Trigonometry—Semester 1—(Shanklin, Hunter, Johnstone)

Freshman: II, V, VI, VII, VIII: (5 and 0)

Prerequisite: Algebra through quadratics, Plane Geometry.

This course covers plane trigonometry, supplemented by numerous related problems and exercises.

Text-book: Crawley and Evans—"Trigonometry."

MATHEMATICS 4—College Algebra—Semester 2. (**Shanklin,** Hunter, Johnstone)

This course embraces a thorough drill in advanced algebra with especial emphasis on the subjects which come up in the subsequent courses in mathematics.

Text-book: Fite's "College Algebra."

MATHEMATICS 5—Analytic Geometry—Semester 1. (Martin, Shanklin, Hunter, Johnstone).

Sophomores: II, III, V, VI, VII VIII, IX: (4 and 0)

Prerequisite: Mathematics 3, 4.

This course comprises a study of cartesian and polar systems of coordinates, discussion and construction of loci, the straight line, transformation of coordinates, the circle, parabola, ellipse, hyperbola, general equation of second degree involving two variables, tangents and normals, higher plane curves, equation of the plane, the straight line in space, and surfaces of the second order.

Text-book: "Analytic Geometry"—Wilson and Tracy.

MATHEMATICS 6—Differentials Calculus—Semester 2. (Martin, Shanklin, Hunter).

Sophomores: II, III, V, VI, VII, VIII, IX: (4 and 0)

Prerequisite: Mathematics 5.

A study of the differentiation of algebraic and transcendental functions, successive differentiation and development of functions, functions of two variables, tangents, normals, and asymptotes, applications of the derivative in mechanics.

Text-book: "Differential and Integral Calculus"—Osborne.

MATHEMATICS 7—Integral Calculus—Semester 1. (Martin, Hunter).

Juniors: II, IV, V, VII, VIII, IX Elective: (3 and 0).

Prerequisite: Mathematics 6.

This course in integral calculus gives instruction in elementary forms of integration, integration of rational fractions, the definite integral, successive reductions, integration of functions of two variables, geometric applications, multiple integrals, and practical problems arising in engineering subjects.

Text-book: "Differential and Integral Calculus"—Osborne.

MATHEMATICS 101, 102—Algebra and Geometry—Semesters1 and 2. (Harris)

Two-year Agr. XII: (4 and 0).

Prerequisite: Arithmetic completed, elementary algebra.

The first semester is devoted to the study of algebra through quadratic equations and the second semester to plane geometry.

Text-books: "Text-book in Algebra"— Wells, "Plane Geometry" —Wells.

MECHANICAL ENGINEERING

Professor Earle

Associate Professor Carpenter

Instructor Burr

MECHANICAL ENGINEERING 1, 2 —Mechanics—Semesters 1 and 2. (Still)
Junior IV, VI, VII, IX. (Elective): (3 and 0)
Prerequisites: Mathematics 6; Physics 5, 6.

The subjects taught are composition and resolution of forces; solution of force systems; couples; centeroids and centers of gravity; friction; moment of inertia; rectilinear motion; curvilinear motion; rotation; combined translation and rotation; work and energy; impulse, momentum, impact.

Text-book: Hancock's "Applied Mechanics for Engineers," revised and rewritten by N. C. Riggs.

MECHANICAL ENGINEERING 3—Mechanics—Semester 1. (Still)
Junior II, V: (3 and 0)
Mathematics 6; Physics 1, 2.

This course is similar to mechanical engineering 1, 2, but is arranged to suit the needs of students in courses II and V, and precedes strength of materials and graphic statics.

MECHANICAL ENGINEERING 4—Mechanical Engineering—Semester 2. (Carpenter, Burr)
Junior IV, V, VI, VII, VIII: (3 and 2)
Prerequisite: Mathematics 7

A general survey of the field of power engineering, taking up the essentials for the production of power, and the principles governing the action of various mechanical motors, and the comparison of their performance. Steam power includes fuels, combustion, theory of steam generation, boilers, boiler auxiliaries, steam turbines, auxiliaries for steam engines and turbines and the testing of steam power equipment. Gas power includes a study of internal combustion engines together with their fuels, gas producers and various auxiliaries connected with internal combustion engine power plants.

Application of steam and gas power to locomotives, automobiles, trucks and tractors.

Introductory to mechanical engineering and embracing, (a) the study of calibration of leading types of instruments and apparatus used in mechanical engineering, and (b) elementary tests of materials and machinery.

Text-books: Potter and Calderwood's "Elements of Steam and Gas Power Engineering." Moyer's "Power Plant Testing."

MECHANICAL ENGINEERING 5, 6—Mechanical Engineering— Semesters 1 and 2. (Earle)

Senior VII: Semester 1 (5 and 4), Semester 2 (5 and 5)

Prerequisite: Mechanical Engineering 4.

First semester: Thermodynamics of gases, steam, etc. In this is taken up heat and heat power plants, laws of gasses; expansion and compression, entropy, gas and vapor cycles, properties of steam power, efficiency and performance of engines, both theoretical and actual, and methods of increasing the efficiency of the actual steam engine; steam engine parts, and types of steam engine governors, valve gears of steam engine, indicator diagrams for both simple and compound engines, performance of steam engine.

Second semester: Thorough study of steam turbines, including design; external and internal combustion engines, fuels, combustion, boilers, superheaters, draft and draft apparatus, utilization of waste heat, heat transfer, gas producers, producer gas, feed water heaters, condensers and auxiliaries; purification of water, power plants, compressed air, refrigeration. During the whole course many problems covering principles involved are worked out. A graded series of experiments upon the quality of lubricants, strength of engineering materials, and operating characteristics of representative types of steam, internal combustion, and hydraulic machinery. During the second semester a number of elaborate and highly technical experimental problems are undertaken, problems of special interest to the mechanical engineer.

Text-books: Hirshfield and Barnard's "Elements of Heat Power Engineering." Moyer's "Power Plant Testing."

MECHANICAL ENGINEERING 7, 8—Mechanical Engineering— Semesters 1 and 2. (Earle)

Senior VI: (3 and 2)

Prerequisite: Mechanical Engineering 4.

First semester: Study of thermodynamics of gases, properties of steam, entropy, valve gears, indicators, losses in engines, compound engines, superheated steam and its application, steam jackets, and injectors.

Second semester: Condensers feed water heaters, governors, turning efforts on crank shaft, fly wheel design, study of details of engines, balancing of engines, performance of engines, locomotives, steam turbines, their application of design, refrigeration, and ice plants, power plant auxiliaries.

Laboratory similar to that given in mechanical engineering 5, 6.

Text-books: Ripper's "Steam Engine, Theory and Practice." Moyer's "Power Plant Testing."

MECHANICAL ENGINEERING 9, 10—Mechanical Engineering— Semesters 1 and 2. (Earle.)

Senior V: Semester 1 (3and 2) Semester 2 (3 and 0)

Prerequisite: Mechanical Engineering 4.

This course is very similar to mechanical engineering 4 except that the laboratory work is curtailed and suited more to the needs of the civil engineer.

Laboratory similar to that given in mechanical engineering 5, 6.

Text-books: Ripper's "Steam Engine, Theory and Practice." Moyer's "Power Plant Testing."

MECHANICAL ENGINEERING 11—Mechanical Engineering— Semester 1. (Carpenter)

Senior IV, VIII; (3 and 2)

Prerequisite: Mechanical Engineering 4.

This course is designed to briefly cover the fundamentals of mechanical engineering most necessary for the textile and chemical engineer to know. The course is somewhat similar to mechanical engineering 7, 8, but shorter.

Text-books: Ripper's "Steam Engine, Theory and Practice." Moyer's "Power Plant Testing."

MECHANICAL ENGINEERING 13—Design—Semester 1: (Carpenter)

Senior VI: (0 and 2)

Prerequisites; Drawing 18, Mechanical Engineering 4.

This course is similar to mechanical engineering but briefer and especially arranged for electrical engineering students.

MECHANICAL ENGINEERING 14—Design—Semester 2. (Carpenter)

Senior VII: (0 and 2)

Prerequisites: Drawing 18; Mechanical Engineering 4.

An analytical and graphical study of the fundamental principles of construction of various classes of certain machinery such as the steam engine, pumps, steam turbines, etc., by the solution of certain problems in design.

Division Rooms and Equipment

The laboratory is situated on the ground floor of the engineering building, and occupies a room 37 feet by 108 feet, and a room 37 feet by 50 feet, and contains the following equipment:

For Steam Engineering.—One 15 hp. horizontal locomotive type boiler; one 6 hp. Erie, plain slide valve steam engine, throttling governor; one 5 vertical engine built by students; one 15 hp. Payne high speed automatic cut off engine; one 40 hp. McEwen engine designed to give very close regulation of speed; one Corliss cross compound engine, aranged to run either condensing or noncondensing and with either or both cylinders with high pressure steam; one

7 kw. Curtis steam turbine non-condensing, direct connected to a two pole interpole direct current compounded generator, with necessary switchboard and instruments; one Wheeler surface condenser, with combined air and circulating pumps; one separately fired Foster superheater; one set steam gauge testing apparatus; one Carpenter's separating calorimeter; two Carpenter's throttling calorimeters; six steam engine indicators of various makes; four injectors; two draft gauges; seven steam gauges.

For Hydraulic Engineering—One DeLaval centrifugal pump 100 g. p. m. against 100 feet head; one power triplex pump; one Pelton water motor; one hydraulic ram; three duplex pumps of different makes; one gear pump; two weirs; two hook guages; one pair scales for meter testing.

For Compressed Air—One Clayton air compressor, water jacketed; one improved air motor; one Sirroco blower direct connected to D. C. variable speed motor.

For Fuel and Lubricants.—One Carpenter's coal calorimeter with scales, balances and oxygen generating device; one standard viscosimeter; one Thurston friction tester; one Saybolt (U. S. Standard) viscosimeter; one open flash and fire tester; one Emerson bomb coal calorimeter with adiabatic jacket.

For Gas Engines.—One 5hp. Otto gasoline engine; one 7 hp. Alamo gasoline engine, and Delco outfit, one 3 hp. Meitz and Weiss oil engine.

Miscellaneous—One 6 hp. transmission dynamometer, graduated to read horse-power direct and built by students; eight platform scales; four spring balances; seven mercury thermometers; one electrical resistance thermometer; two Bristol thermo-couples for reading temperatures to 2,000 and 2,900 degrees respectively; planimeters. All apparatus is so arranged that it may be used for separate or combined tests. Besides the apparatus in this room, the apparatus in the power station, pumping station and refrigeration plant are available for instruction and tests. For lists of equipment see description of buildings.

MILITARY DEPARTMENT

Major Pearson, Professor

Captain Lee, Assistant Professor

Captain Braden, Assistant Professor.

Captain May, Assistant Professor

Captain Durfee, Assistant Professor

Lieutenant Emery, Assistant Professor.

MILITARY SCIENCE 1, 2.—Military Science and Tactics,
Freshman Class, All Courses: (0 and 3)

Infantry Drill Regulations; Close and extended order; Ceremonies.

Rifle Marksmanship: Nomenclature and care of rifle; Gallery practice; Range Practice.

Scouting and Patrolling: Principles governing composition, formation, and operation.

Physical Training: Setting-up exercises; Mass Games; Mass Athletics.

Military Courtesy.. Principles of Military discipline; The military courtesies of the Army of the United States.

MILITARY SCIENCE 3, 4—Military Science and Tactics
Sophomore Class, All Courses: (o and 3)

Map reading and military sketching; visibility problems ,reading of maps making of maps.

Infantry Weapons; the bayonet, the automatic rifle; hand and rifle grenade.

Musketry; weapons of infantry squad; range estimation; fire discipline; fire control; control of movement; conduct of fire in the attack and the defense; combat practice.

Command and leadership; exercise of command appropriate to non-commissioned officers.

Military hygiene, sanitation and first aid; personal hygiene; first aid to injured, cause of disease; selection and protection of drinking water.

MILITARY SCIENCE 5, 6—Military Science and Tactics. Semesters 1 and 2.
Junior Class, R. O. T. C.: (2 and 3)

Field Engineering; trenches, obstacles; shelters; machine gun emplacements; observation posts; working parties; concealment and camouflage.

Accompaning weapons; machine gun; 37 millimeter (one-pounders;) the light mortar.

Military Law and Rules of Land Warfare; definition; sources and kinds military jurisdiction; classification and composition of courts; exercise of military jurisdiction; persons subject to military law; articles of war explained; procedure before trial; procedure of courts-martial; evidence; sentences; punishment without trial; rules of land warfare; moot court exercises.

Command and leadership; exercise of command appropriate to grades of Sergeant and Lieutenant.

Infantry drill regulations; the battalion and the regiment.

MILITARY SCIENCE 5a, 6a—Military Science and Tactics.—Semester 1 and 2

Junior Class, Non-R. O. T. C.: (0 and 3)

Same as Course 5, 6 but covering only three-fifths of the work.

MILITARY SCIENCE 7, 8—Military Science and Tactics.—Semesters 1 and 2.

Senior Class R. O. T. C.: (2 and 3)

Tactics; general view of the organization and conduct of the battalion and higher units; principles governing the organization; armament, equipment, and conduct of the rifle, machine gun, Howitzer, and headquarters companies in offensive and defensive combat; tactical principles governing the conduct of the platoon and smaller units in offensive and defensive combat; principles governing the employment and details of the conduct of covering detachments in open and position warfare; exercises and problems on sand table, map and terrain.

Military history; American military history including the World War; the sources of authority for our military establishment; development of the military resources; the state of national preparedness for war at a critical period in the history of the United States; the cost of American wars in relation to national unpreparedness.

Administration; preparation of papers pertaining to the administration of a company.

Command and leadership; exercise of command appropriate to the grades of Lieutenant to Major.

Pistol marksmanship.

MILITARY SCIENCE 7a, 8a—Military Science and Tactics.—Semester 1 and 2.

Senior Class, Non-R. O. T. C.: (0 and 3)

Same as Course 7, 8 but covering only about three-fifths of the work.

MODERN LANGUAGES

GERMAN 1, 2.—(Lippincott)

Junior Class; Course IX, (Elective)

The essentials of German grammar; collateral reading; conversation.

Text-book: Bacon's "New German Grammar."

Course IX: Three periods a week throughout the session.

GERMAN 3, 4—(Lippincott)

Senior Class; Courses IX (Elective)

German prose composition; study of German words and idioms; German-English cognates; translation of literary and scientific German; conversation.

Text-books: Bacon's "German Composition," Manley-Carl Schurdtz's "Lebenserinnerungen," Gerstaecker's "Germelshausen," Wallentin's "Grundzuge der Naturlehre," or texts of equal dificulty.

Three periods a week throughout the session.

FRENCH 1—(..................................)

Junior Class: Course IX. (Elective)

The essentials of French grammar; collateral reading; translation of easy French prose; French prose composition.

Three periods a week throughout the session.

FRENCH II—(...............................)

Senior Class: Course IX (Elective)

French syntax; French verbs; French idioms and prepositions; translation of literary and scientific French.

Text-books: Cortina's French Method; De Nonvert's La Belle France; Herdler's Scientific Reader.

Two periods a week throught the session

SPANISH I—(..............................)

Junior Class: Course IX (Elective)

This course is an introduction to the Spanish language consisting of drill in grammar, translation from Spanish into English and from English into Spanish, and conversation. Emphasis is laid on pronunciation, accent, and idiom.

Text-books: "A Spanish Grammar" by Hills and Ford, and "A Spanish Reader" by Bransby.

Three periods a week throughout the session.

SPANISH II—(_______________)

Senior Class: Course IX (Elective)

This is a continuation of Spanish—I with the addition of more reading and conversation. It takes up also a study of pamphlets, bulletins and books concerning the Latin-American countries, especially from an industrial and commercial point of view.

Text-books: The same as in Course I and a Spanish newspaper.

Two periods a week throughout the session.

PHYSICS

Professor Godfrey

Assistant Professor Hodges

Assistant Professor Sherman

PHYSICS 1, 2.—General Physics—Semesters 1 and 2. **(Hodges)** and Sherman).

Freshman: II, V, VI, VII, VIII: (2 and 2).

Prerequisite: Entrance mathematics: Entrance physics 1 unit.

This is an introductory course in general physics for engineering students. Its object is to make the student familiar with the fundamental principles of physics and to lay the foundation for subsequent work. Mechanics, heat, light, electricity, and magnetism are studied with emphasis upon the problem work. In the laboratory elementary quantitative experiments in these subjects are assigned. Mimeographed notes are used, and such accuracy as the conditions permit is insisted upon so that the student may acquire some idea of modern experimental methods. **The curve plotting** method of showing results is taught.

Text-book: "College Physics."—Kimball.

PHYSICS 1a, 2a.—General Physics—Semesters 1 and 2. (Sherman and Hodges)

Freshman: II, V, VI, VII, VIII: (2 and 2)

Prerequisite: Entrance mathematics.

This course is similar to that described above, but does not require high school physics as a prerequisite. The laboratory course is the same but the study of light and a part of electricity is omitted in the class room work so that sufficient time may be given to mechanics.

Text-book: "A Text-book of Physics"—Spinney.

PHYSICS 3, 4—Principles of Physics—Semesters 1 and 2. (Hodges)

Sophomore: I, III, IX: (2 and 2)

Prerequisite: Mathematics 1, 2.

This is a general course in college physics arranged particularly to meet the needs of students in agriculture and chemistry. The physical laws in mechanics, heat, light, electricity, and magnetism are studied with reference to their application in these courses. Particular attention is given to the properties of matter and to the principles of operation and adjustment of instruments used in later work in physical chemistry and agriculture. Directions for the experiments assigned are given in mimeographed notes.

Text-book: "The Elements of Applied Physics"—Smith.

PHYSICS 5, 6—College Physics—Semesters 1 and 2.—(Godfrey and Hodges).

Sophomore: V, VI, VII: (3 and 0)

Prerequisite: Physics 1, 2; or 1a, 2a and Mathematics 3, 4.

This course is a continuation of physics 1, 2 for engineering students. Lectures with demonstrations are given covering the fundamental principles given in the text, and the assigned problems are chosen with special reference to the application of physical laws in engineering work. The course covers the subject mattter of the text.

Text-book: "General Physics"—Ferry.

PHYSICS 7, 8—Laboratory Physics—Semesters 1 and 2 (Godfrey and Sherman).

Sophomore: V, VI, VII, VIII: (0 and 2.)

Prerequisite: Physics 1, 2: or 1a, 2a and Mathematics 3, 4.

This work includes careful quantitative measurements in mechanics, heat, light, electricity, and magnetism. It is the equivalent to that described in the average college manual of physical measurements. The student is required to understand the fundamental principles involved in the experiments and to show by his results some skill in physical manipulation and careful method in the calculations required. In much of the work he is thrown upon his own resources and expected to develop some confidence in the correctness of his work. The report includes some discussion of the limitations of the method used and its accuracy. To accompany Physics 5, 6.

Text-book: Mimeographed notes.

PHYSICS 9, 10—Advanced Physics—(Godfrey and Hodges).

Junior and Senior: IX, (Elective): (3 and 2)

Prerequisite: Physics 5, 6, 7, 8.

This course is for students specializing in Physics on topics selected to suit the plans of the students taking it for either advanced engineering or graduate work in science. A careful study of only a few topics is attempted. Projects in molecular physics, vectorial mechanics, thermodynamics, radiation, and electro-magnetic waves are suggested. Special facilities are available for experiments with spark discharge, damped and undamped electric waves and various types of oscillating circuits.

PHYSICS 11, 12—Principles of Physics—(Godfrey and Sherman).
Junior and Senior: IX: (2 and 2.)
Prerequisite: Physics 3, 4, or the equivalent.

Students intending to teach are given a course covering the fundamentals of general Physics with suggestions regarding methods of presentation and demonstration, organization of laboratory work, and objects to be sought in teaching elementary physics or general science. The laboratory work is a continuation of the sophomore course with more advanced experiments. A wide choice of experiments is given so that the course, while primarily intended for teachers, is also suited to the needs of students in general science not intending to teach.

Text-book: "College Physics"—Kimball.

PHYSICS 14—Elementary Descriptive Astronomy—Semester 2. —(Godfrey).
Junior: V: (0 and 1)
Prerequisite: Physics 5, 6 and Mathematics 5, 6.

This is a brief course in general astronomy arranged with special reference to the work of civil engineers. The motions of the heavenly bodies are studied and some time is given to the general facts of descriptive astronomy.

Text-book: "Elements of Astronomy"—Young.

Division Rooms and Equipment.

The Physics Division is located in the Academic Building and occupies four connecting rooms. The lecture room is 33 by 33 feet, and seats a class of sixty. The three laboratory rooms are 27 by 33 feet, 24 by 33 feet, and 21 by 27 feet, the latter being a basement room. Provision is made for gas, water, light, and power in all these rooms. The division is provided with a great variety of apparatus for both lecture and laboratory purposes. Additions are made each year to the equipment in laboratory and lecture demonstration apparatus. The facilities of the large Radio Broadcasting Station are also used by the Physics Division.

RURAL SOCIOLOGY

Professor Mills.

RURAL SOCIOLOGY 1—Rural Sociology—Semester 1. (Mills)
Senior 1, Elective: (3 and 0)

Its definitions, origin, purpose, methods. The relation of rural sociology to scientific agriculture.

The growth, maintenance, and decline of the rural community. The psychology of rural life; its isolation, contact with nature. etc.

Text-book: "Rural Sociology"—Gillette.

RURAL SOCIOLOGY 2—Literature of Rural Life—Semester 2. (Mills)
Senior 1, Elective: (2 and 2)

This course will develop the aesthetic element in agriculture, and will view its practice as a fine art. It will make the student familiar not only with the literature of country life, but with the lives of the great men of the country, farmers, breeders, horticulturists, teachers, preachers, etc.

RURAL SOCIOLOGY 100—Elements of Rural Sociology—Semester 2. (Mills)
Two-Year Agr. XII: (2 and 2)

An elementary course in Rural Sociology with special attention to the country life of South Carolina. Tenancy, health, the rural school, the rural church, and rural recreation are some of the topics studied. The object is to acquaint the student with problems he is likely to confront in his own community.

Careful and detailed studies of the country life of South Carolina, county by county, by means of census reports, and special State and Federal reports, and of such subjects as tenancy, illiteracy, wealth production, wealth retention, charity, amusements, etc.

RURAL SOCIOLOGY 4.—Bible—Semester 2 (Mills)
Senior Elective: (1 and 0)

The Bible will be studied: (a) as history, showing the development of the Jewish people, their relations with other nations, their final dispersion; (b) as the norm of faith and practice, discussing its peculiar claims for itself, its ethical content, its influence upon the world.

SHOP WORK

Associate Professor Johnson

Associate Professor Shubert

Associate Professor Marshall

SHOP WORK 1, 2—Forge Work—Semesters 1 and 2. (Johnson)
Freshman IV, V, VI, VII, VIII: (0 and 2)

This course embraces all the fundamental principles of forge work, such as, drawing out, upsetting, bending, shouldering, punching and welding in iron and mild steel.

During the first semester the work is done in wrought iron and mild steel and each exercise is carefully explained and demonstrated by the instructor, with full discussion by student and teacher.

The second semester is devoted to tool making and tempering steel. Special lectures are given on the manufacture and handling of iron and tool steel, and with emphasis on making, grinding and polishing tools.

Each student is supplied with working drawings and a complete outfit for doing the work on the plan that is found in any good commercial plant.

SHOP WORK 3—Forge Work—Semester 1.—(Johnson)
Freshman II: (0 and 2)

This course is identical with shop work 1 for the first semester.

SHOP WORK 5, 6—Forge Work—Semesters 1 and 2. (Johnson)
Freshman I, III, IX: (0 and 2)

This course is identical with shop work 1 for the first semester. During the second semester, the work as more directly related to the upkeep of a farm is given, such as repairs on machinery and farm equipment, special attention being given to welding and brazing in the open fire.

SHOP WORK 7, 8—Foundry—Semesters 1 and 2. (Johnson)
Sophomore VI, VII, VIII: (0 and 2)

This course is designed to give the student a comprehensive idea of the principles of foundry practice, as related to the trades, and the importance of this branch of industry, as to its relation to engineering work.

The first semester is taken up with such things as moulding sands, flasks and the use of the tools used in the trade, various plain moulding from simple patterns, ramming, gating, venting and facing moulds.

The second semester covers the mixing of metals, melting and pouring moulds, core making and its connection with foundry practice, also, notes and talks on the physical and chemical properties of the various ferrous metals. A portion of this time is spent with brass work, dealing with all of the non-ferrous metals.

SHOP WORK 9—Industrial Arts—Semester 1. (Johnson)
Junior IX. (0 and 2)

Work is given covering the fundamentals underlying foundry practice, such as tempering sand, mixing facings, making dry sand cores, and making iron and brass in green sand.

SHOP WORK 11.—Industrial Arts.—Semester 1. (Johnson)
Junior IX. (Elective): (0 and 2)
Prerequisite Shop Work 9.

This course is devoted to the history of foundry practice, the study of cupola construction, mixing metals, classification of patterns, and the methods of handling foundry work in the shop.

Text-book: Wendt's "Foundry Work" supplemented with notes and talks.

SHOP WORK 13, 14—Machine Shop. Semester 1 and 2. (Shubert)
Junior VI, VII, Semester 1. (0 and 5) Semester 2 (0 and 3)
Prerequisite: Shop work 2, 8.

This course begins with chipping, filing, and scraping, which involves the use of the lay-out table, surface gage, center punch, hammer, file, chisel, scraper, surface plate, square, and straight edge, which concludes the term of bench work.

The students then take up the various operations on machine tools, which have been previously demonstrated by the instructor. All measurements of machine tool operations come to very close limits.

In this course the student is given a practical working knowledge of machine shop tools, and of directing machine shop work efficiently. One hour of the weekly period is used by the instructor in demonstrating all operations together with talks on uses and care of precision tools. This is to familiarize the student with the difficulties that arise in his practical machine shop work.

SHOP WORK 15—Machine Shop. Semester 1. (Shubert) .
Junior V; (0 and 3)
Prerequisites: Shop work 2, 8

Essentially the same as shop work 13, 14 but less extensive.

SHOP WORK 17, 18—Wood Work—Semesters 1 and 2. (Marshall)
Freshman IV, V, VI, VII, VIII: (0 and 2)

This course includes both bench and lathe work and is designed to familiarize the student with tools and machinery commonly used in wood work. The latter part of this course is devoted to the study of the best methods of finishing.

Text-book: Lefax Note Book.

SHOP WORK 19—Wood Work.—Semester 1.—(Marshall)
Freshman II: (0 and 2)

This course is identical with shop work 17 for the first semes

SHOP WORK 21, 22—Pattern Making—Semesters 1 and 2. (M
shall)
Sophomore VI, VII: (0 and 2)
Prerequisite: Shop work 18.

This course consists of exercises in pattern making with special reference to the principles involved. It is planned to outline to the student a general survey of the most suitable materials, the special tools, and the fundamental processes of the trade, together with the relations of the allied departments—particularly those of the foundry. The student is required to make, from machine drawings, full sized patttern drawings, making the necessary allowances for finish, shrinkage and draft. The course is further illuminated by lectures on the metal trades and the manufacture of iron products, so that the pupil learns exactly what part pattern-making plays in the commercial world.

Text-book: "Wood Pattern Making."

SHOP WORK 23, 24.—Indurstrial Arts—Semesters 1 and 2. (Marshall)
Junior IX: (Elective) (0 and 2)

This course is designed for students who wish to teach manual training. Special emphasis is laid on good form in the use of wood working tools and machinery. The course is more intensive and more exacting than that required of the regular engineering students.

A proportional part of the course is given to the study and application of the latest and best finishes, including varnishes, stains, enamels, paints and polychrome.

SHOP WORK 25, 26—Industrial Arts—Semesters 1 and 2. (Marshall)
Senior IX: (Elective) (0 and 2)
Prerequisite: Shop work 14.

This course includes lectures and assigned work in advanced cabinet work and pattern making. Some time is given in practice teaching and observation, each student being assigned as assistant in some of the shop classes throughout the entire session.

SHOP WORK 101—Forge Shop—Semester 1. (Johnson)
Two-Year Agr. XII: (0 and 2)

A course devoted to problems encountered in the upkeep of the farm. Exercises in tempering, riveting, plow sharpening, and repairs to farm machinery are given.

SHOP WORK 102.—Wood Shop—Semester 2. (Marshall)
Two-Year Agr. XII: (0 and 2)

The aim of this course is to teach the fundamentals of wood work as applied to construction and repair on the farm. The students are given practice in the use of saws, planes, chisels, and other common tools.

Equipment

The **Forge Shop** occupies a room 37 by 98 feet. The equipment is installed under two separate systems. One system consists of 18 Buffalo down-draft forges; 18 Hay Budden anvils equipped with all necessary small tools; a 60-inch exhaust fan; a No. 4 direct-connected pressure blower; a drill press; an emery grinder; a bending cone; a Buffalo iron shear; two swage blocks; a vise and work bench. The other system consists of 18 Sturtevant down-draft forges; 18 Hay Budden anvils thoroughly equipped with small tools; a 60-inch exhaust fan, direct connected; and a blackboard for special drawings.

The **Foundry** occupies a space of 43 by 76 feet, and is free from posts and other obstructions. It is equipped with a 26-inch Victor Colliau's cupola; a No. 7 pressure blower; a Millett core oven; a large Paxon brick core oven; a two-ton post crane; tools for eighteen students; also a case of special tools, a full equipment of hand, bull, and truck ladles and a full line of foundry flasks.

The brass foundry is equipped with an 18-inch furnace; a drying stove; clamps, flasks, tongs, and graphite crucibles for making and pouring molds. Also one Ferro-fix brazing machine with full equipment for doing diversified cast iron brazing.

The **Machine Shop** occupies the ground floor and part of the basement of the southwest wing of the engineering building, the main floor being 45 by 100 feet. The equipment consists of the following: suitable benches and vises for chipping, filing, and assembling of machines, one 18-inch by 12 foot engine lathe, one 18 inch by 8 foot engine lathe, eleven 14 inch by 6 foot engine lathes, one 14 inch by 8 foot speed lathe, five direct motor drive 14 inch by 5 foot engine lathes, two universal milling machines, one 22 inch by 6 foot planer, one 14 inch shaper, one 10 inch slotter, one 10 inch by 30 inch universal grinder, one universal tool and cutter grinder, one twist drill grinder, one 18 inch floor grinder, two 9 inch floor grinders, one 36 inch wet floor grinder, one 28 inch vertical drill press, one 18 inch vertical drill press, one power hack saw, one down draft forge equipment, one oil burning tempering furnace, a tool room containing hand tools, gages and fixtures.

The **Wood Shop** division consists of two shops. The instructional shop is devoted to class room work for freshman and sophomore students. The class room measures 50 by 100 feet and contains thirty-two speed lathes, fully equipped; fifty work benches, each supplied with a full set of tools; one universal saw; one bench joiner and planer; one band saw; one jig saw; one motor-driven disc sander; two oil stone grinders; one shaper and carving machine; one universal trimmer;—all machines and tools being of the latest approved design for class room work in wood work and pattern making. This class room is served by a convenient stock room, and tool room.

The commercial wood shop is equipped with planing mill machinery consisting of a double-roll planer, one rip saw, one cross cut table saw, one swinging cut-off saw, one lathe with twelve-foot bed, one joiner, one molding machine, one double-headed shaper, one mortising and boring machine, one swinging arm sand papering machine, and an asortment of benches, clamps, glue pots, etc. This shop is 40 x 100 feet and is driven by a 20 hp. electric motor. A lumber shed and steam dry kiln adjoin.

TECHNOLOGY OF FABRICS

Professor Eaton

Assistant Professor Cheatham

TECHNOLOGY OF FABRICS 1—Fabric Construction—Semester 1. (Eaton)

Sophomore VIII: (2 and 0)

A study of yarns used in fabrics. Yarn calculation. Classes of textile fabrics. Classes of woven fabrics. Method of representing weaves. Weaves used in standard fabrics. Diameters of yarns. Maximum ends and picks per inch. Effect of yarn twist. Shrinkage and take-up. Reed calculations. Air space and ends per dent in reeds. Cloth calculations.

Text-book: E. A. Posselt's "Technology of Textile Design."

TECHNOLOGY OF FABRICS 2—Elementary Design—Semester 2. (Eaton)

Sophomore VIII: (2 and 0)

Prerequisite: Technology of Fabrics 1.

Production of designs representing derivative twills and satins, honeycombs, mock leno, granites, crepe, bedford cords, double cloth, pique, corduroy, velvet, and extra warp designs. Extra selvage motions, cam designing and top riggings.

Text-book: Posselt's "Technology of Textile Design."

TECHNOLOGY OF FABRICS 3—Dobby Designing—Semester 1. (Cheatham)

Junior VIII. (0 and 2)

Prerequisite: Technology of Fabrics 1, 2.

A study of pattern styles. Method of combining two or more weaves. Ratio of construction for different weaves in patterns. Laying out designs when either "ground" or "over-all" is given. Drawing in and chain drafts and reed plans. Point to start drawing warp. Reed, harness and warp calculations. Each student is required to produce ten designs from sketches and cloth specifications.

TECHNOLOGY OF FABRICS 5, 6—Fabric Analysis—Semesters 1 and 2 (Eaton)

Junior VIII: (0 and 2)

Prerequisite: Technology of Fabric 1, 3.

Methods of distinguishing between cotton, wool, silk and linen. Finding per cent of different fibers in fabrics. Determining amount of size in fabrics. Methods of finding yards per pound from small samples. Over-all and ground constructions. Per cent of warp and filling. Warp and filling numbers. Finding weave and looming plans. Each student is required to analize six samples the first semester and ten the second semester.

TECHNOLOGY OF FABRICS 7—Leno Designing and Warp Preparation—Semester 1 (Eaton)

Senior VIII: (2 and 0)

A study of warping and slashing for gray goods. Size mixtures. Humidity requirements. Color in fabric production. Methods of dressing colored warps. Loom beam dressing and warping layouts for colored warps. A study of cross weaving on cord and steel doups.

TECHNOLOGY OF FABRICS 8—Jacquard Designing—Semester 2. (Cheatham)

Senior VIII: (0 and 4)

Senior VIII:

A study of the different types of Jacquard machines. Types and methods of harness building. Laying out designs for different tie ups. Card cutting and lacing. Method of repeating and machine lacing. Each student will be required to make one design for a specified tie-up and to prepare cards therefrom.

Text-book: I. C. S. on Jacquards.

TECHNOLOGY OF FABRICS 10—Weave Room Methods—Semester 2 (Eaton)

Senior VIII: (3 and 0)

Organization and laying out of weave room machinery. System of keeping records on typical styles of fabrics. Cost finding for different types of fabrics. General weave room management.

General Management of weaving mills, including organization and laying out of weaving room and preparatory machinery, Cost finding.

TECHNOLOGY OF FABRICS 11.—Plain Weaving—Semester 1. (Eaton)

Sophomore VIII: (0 and 2)

Instruction in the operation of automatic and non-automatic looms. Drawing in warps. Warping, winding and slashing.

TECHNOLOGY OF FABRICS 12—Loom Fixing—Semester 2. (Cheatham)

Sophomore VIII: (0 and 2)

A systematic study of the motions of a loom. Setting and timing the parts with particular reference to economy in power and supplies. Multiple cam setting and production calculations.

Text-book: Reynolds' "Loom Fixing"

TECHNOLOGY OF FABRICS 13, 14—Fancy Weaving—Semesters 1 and 2. (Cheatham)

Junior VIII: (0 and 2)

Prerequisites: Technology of Fabrics 11, 12.

This course is a combination of practical weaving and loom fixing on dobbies and box looms. A study of dobby harness setting for various types of patterns. A detailed study of dobbies and box motions, and practice in building dobby and box pattern chains.

TECHNOLOGY OF FABRICS 16—Pattern Weaving—Semester 2 (Eaton)

Senior VIII: (0 and 4)

Practice in putting on dobby, box, and jacquard patterns which have been worked out by the students in courses 3, 7, and 8

TECHNOLOGY OF FABRICS 18.—Knitting—Semester 2. (Eaton)

Senior VIII: (0 and 2)

A study of flat and circular machines. Spring and latch needles. Gauge and needles per inch. Functions of all parts of machines. Narrowing and widening. Splicing and reinforcing. Yarns for different gauges. Yarn changes, building pattern chain for hose and half hose. Transferring and looping. Rib knitting. Changing the stitch. Finishing the hosiery.

TECHNOLOGY OF FABRICS 101.—Designing—Semester 1 (Cheatham)

Two-Year Textile XI: (2 and 0)

A modification of courses 1, 2, and 3.

TECHNOLOGY OF FABRICS 102.—Designing—Semester 2. (Cheatham)

Two-Year Textile XI: (2 and 0)

Same as course 3.

TECHNOLOGY OF FABRICS 103, 104—Weaving—Semesters 1 and 2. (Cheatham)

Two-Year Textile XI: (0 and 4)

A modification of courses 11, 12.

TECHNOLOGY OF FABRICS 105—Fabric Analysis—Semester 1. (Eaton)

Two-Year Textile XI: (3 and 0)

Same as course 5.

TECHNOLOGY OF FABRICS 106—Jacquard Design—Semester 2. (Eaton)

Two-Year Textile XI: (3 and 0)

Same as course 8.

Text-book: I. C. S. on Jacquards.

TECHNOLOGY OF FABRICS 107, 108—Weaving—Semesters 1 and 2. (Eaton)

Two-Year Textile XI: (0 and 4)

Prerequisite: Technology of Fabrics 103, 104.

Similar to course 16, but more extended.

Division Rooms and Equipment

The equipment for this division occupies three rooms on the top floor of the Textile Building besides one office and class room.

Knitting Room.—One "K" model Scott and Williams 220 needle hosiery machine; one Hemphill 200 needle "Banner" hosiery machine; one Brinton 176 needle ribber; one Jenckes 176 needle hosiery machine; one Wright Steady Dial looper; one 16-bobbin circular braider; one 13-bobbin flat braider; two Merrow overseaming machines; one 220 needle Banner knitting machine.

Warping and Winding Room.—One Davis and Furber dressing machine; one Entwistle beamer; one Draper ball warper; one Draper beam warper; one Lowell Machine Shop single cylinder slasher; one jack spooler; one Altemus quiller; one Payne skein winder; one Steele 2-drum quiller, one 4-spindle Universal "Leeson" No. 90 quiller.

Weave Room.—Seventeen 14-inch hand looms with 25 harness dobbies; one 40-inch Northop loom, 16-harness dobby; one 28-inch Northop loom, steel harness; three 40-inch Mason looms; one Crompton and Knowles 30-inch loom, 20 harness dobby and leno motion; one Crompton and Knowles 30-inch loom, 624-hook Holton Jacquard; one Crompton and Knowles 40-inch "Gem" loom, 4 by 4 box and 25 harness dobby; one Crompton and Knowles 26-inch terry towel loom, 3 by 1 box and 16-harness dobby; one Crompton and Knowles 64-inch damask loom, 4 by 1 box and 624-hook Jacquard; one Whitin 40-inch multiple cam loom; one Whitin 40-inch loom, 20 harness dobby; one 27-inch Whitin medium duck loom; two Kilburn and Lincoln 36-inch plain looms; one Crompton and Knowles 30-inch loom, 2 by 2 box and 16 harness dobby; one Crompton and Knowles 30-inch loom, 416-hook Jacquard and card multiplier; one "E" model 28-inch Draper loom, steel harness warp stop motion; one "E" model 28-inch Draper loom, two harness "string" warp stop motion; one "E" model 28-inch Draper loom, multiple cams and extra selvage motion; one "K" model 28-inch Draper loom; double filling fork, feeler and leno motion; one 40-inch "Ideal" Stafford loom, feeler and 624-hook C. & K. Jacquard; one 30-inch "Ideal" Stafford bag loom; one 40-inch "Ideal" Stafford loom, two harness; one "Ideal" Stafford 4-harness loom; one four space, four bank, Crompton and Knowles narrow fabric loom, 416-hook Jacquard; one Crompton and Knowles 40-inch loom with 624-hook Jacquard; one Crompton and Knowles 30-inch 4 by 1 box loom with 20-harness dobby and leno motion; one Crompton and Knowles 30-inch 2 by 1 automatic box loom; one "E" model 40-inch Draper loom; multiple harness; one Hopedale Mfg. Co's 40-inch "Nordray" plain loom; one Hopedale Mfg. Co. 40-inch Nordray 5-harness satin loom; one Royle French index, piano, card cutting machine; four drawing in frames and a complementary supply of reeds, combs, harness and pick gears.

TEXTILE CHEMISTRY AND DYEING

Professor Doggett

TEXTILE CHEMISTRY 1—Applied Chemistry— Semester 1.
Junior VIII: (2 and 2)
Prerequisite: Chemistry 1, 2.

The manufacture, uses, and technical analysis of the more important inorganic compounds used in the textile industry are studied.

The laboratory work in connection therewith consists in the preparation of a number of typical inorganic chemicals and of the standard volumetric solutions most frequently used.

Reference book: Knecht, Rawson and Rosenthal's "Manual of Dyeing."

TEXTILE CHEMISTRY 2—Organic Chemistry—Semester 2
Junior VIII: (2 and 2)
Prerequisite: Textile Chemistry I

After a general introduction a detailed study of the aliphatic series follows, including constitution and structural theory. Some attention will be given to the history of organic chemistry..

The laboratory work consists in the preparation of one or more organic compounds illustrating each group. Some time is also given to qualitative organic analysis. Special attention is given to the proper setting up and manipulation of apparatus.

Text-book: Cohen's "Theoretical Organic Chemistry." Holleman's "Laboratory Manual of Organic Chemistry for Beginners.

TEXTILE CHEMISTRY 3—Organic Chemistry—Semester 1.

Senior VIII: (2 and 2)
Prerequisite: Textile Chemistry 2.

The aromatic series of organic compounds is studied, special prominence being given to the structure and preparation of synthetic dyestuffs and of the intermediate compounds from which they are made.

In the laboratory typical aromatic compounds illustrative of each group as well as a number of intermediates and dyestuffs are prepared.

Text-book: Cohen's "Theoretical Organic Chemistry."

Reference book: Cain and Thorpe's "Synthetic Dyestuffs."

TEXTILE CHEMISTRY 4—Dyeing—Semester 2.

Senior VIII: (0 and 4)
Prerequisite: Textile Chemistry 3.

This course includes the bleaching, dyeing, mercerizing, and printing of cotton. Some attention is also given to the dyeing of wool and of silk. The more important mordants are prepared and applied, and experiments illustrating the properties and uses of gums, starches and chemicals used in the textile industry are made. Then follows color matching and the identification of dyes on the fiber. A brief discussion of the physical and chemical principles involved precedes the laboratory work of each period.

Text-book: Fraps' "Principles of Dyeing."

Reference books: Knecht, Rawson and Rosenthal's "Manual of Dyeing; Knecht and Fothergill's "Principles and Practice of Textile Printing."

TEXTILE CHEMISTRY 101, 102—Dyeing—Semesters 1 and 2. (Doggett)

Two-Year Textile XI: (0 and 4)

Same as Textile Chemistry 4 and must be taken as a parallel course to General Chemistry 1, 2.

Text-book: Fraps' "Principles of Dyeing."

TEXTILE CHEMISTRY 104—General Science—Semester 2. Dogget.)

Two-Year Textile XI: (4 and 0)

This course is designed as introduction to the science of everyday things that the reason for many of the common facts in the world may be understood. Many of the experiments described in the text-book used will be performed by the students.

Text-book: Hodgson's "Elementary General Science."

VETERINARY SCIENCE

Professor Feeley.

VETERINARY SCIENCE 2—Anatomy and Physiology—Semester 2. (Feeley)

Junior 1, Elective: (2 and 2)

This course is a study of anatomy, physiology of digestion, farm sanitation, common diseases, and first aid treatment and is especially arranged for agricultural students.

The course in anatomy, which arranged as an introduction to the study of physiology of digestion and stock judging; includes the study of skeletons and the principal articulations, muscles of locomotion and the organs of circulatory, respiratory, digestion, and urinary apparatus. Skeltons, models, and charts are used in this course. The physiology of digestion treats of the chemical and physical processes by which food is made soluble and capable of absorption. Farm sanitation deals with sanitary conditions and with the fundamentals in the control of contagious and infectious diseases. The common diseases and first aid treatment of farm animals are also studied.

Text-book:

VETERINARY SCIENCE 3—Diseases of Animals—Semester 1. (Feeley)

Senior I, Elective : (2 and 2)

This course covers the principles of etiology, pathology, diagnosis, and treatment of the various diseases of domestic animals.

VETERINARY SCIENCE 101—Semester 1. (Feeley)

Two-year Agr. XII: (2 and 2)

A brief study of anatomy, physiology, digestion, farm sanitation, common diseases, and first aid treatment of farm animals.

Text-book: "Veterinary Studies for Agricultural Students"—Reynolds.

YARN MANUFACTURING

Associate Professor Horton

Assistant Professor Campbell

YARN MANUFACTURING 1—Pickers—Semester 1. (Horton)

Sophomore, VIII: (2 and 2)

Opening and mixing cotton. Study of bale breakers, automatic feeders, intemediate and finisher lappers. Various styles of openers, setting and adjusting same. Cleaning trunks, different kinds of beaters, screens, fans, calendar rolls, evener motion and measuring motion. Calculation for drafts, production, speeds, etc. Practice operating pickers and cleaning machinery.

Text-book: Winchester's Cotton Yarn Manufacture.

YARN MANUFACTURE 2—Cards and Drawing Frames—Semester 2 (Horton and Campbell)

Sophomore VIII: (2 and 2)

A study of the revolving flat card, principal parts, stripping, clothing, grinding, brushing, and settings. Calculations for speeds, production, waste, draft, and constants for same. Setting of metallic and leather covered rolls on the drawing frame. Care and varnishing leather covered rolls, calculation for speeds and drafts.

Practice operating cards, drawing frames, and other machinery.

Text-book: Winchester's "Cotton Yarn Manufacture."

YARN MANUFACTURE 3—Roving Frames—Semester 1. (Horton)

Junior VIII (2 and 2)

The construction and operation of roving frames, study of the slubber, intermediate, roving frame, and jack frame. The different styles of top rolls used and the method of weighting them. Making necessary calculations for draft, twist, tension, lay, taper and constants for same. Production per spindle and sizing the roving, turns per inch for different hanks.

Practice operating roving frames.

Text-book: Winchester's "Cotton Yarn Manufacture."

YARN MANUFACTURE 4—Cotton Grading. Doubling and Drafting—Semester 2 (Horton)

Junior VIII: (2 and 2)

Classing of cotton according to U. S. Government standards for grades, tinges, and stains. Stapling of cotton, study of Sea Island, Egyptian, and all grades of cotton raised in the United States. Methods of ginning, marketing, contracts for cotton, receiving and handling cotton at mills, and claims.

Text-book: Notes.

Calculation for draft, production, weights, and number of machines required for different counts, labor costs, and production of yarn from picker to spinning frame inclusive.

Practice operating spinning frames.

Text-book: Lectures and reference books.

YARN MANUFACTURE 5—Spinning, Spooling and Twisting—Semester 1 (Horton)

Senior VIII (2 and 2)

Construction and principal parts of spinning and spooling machines, such as builder motions, travelers, rolls and creels. Calculations on twisting, drafting, doubling, and constants. Wet and dry twisting, amount of twist in different ply and coarse yarns, balanced twist, and thread. Size of rings, steel and brass travelers for different counts. Calculation for the same.

Practice operating spinning and spooling machines.

Text-book: Winchester's "Cotton Yarn Manufacture."

YARN MANUFACTURE 101, 102—Carding and Spinning—Semesters 1 and 2 (Horton and Campbell)

Two-Year Textile XI: (2 and 4)

A modification of courses 1, 2 and 3, 4.

YARN MANUFACTURE 103, 104—Carding and Spinning—Semesters 1 and 2. (Horton and Campbell)

Two-Year Textile XI: (2 and 4)

A modification of courses 3 4, and 5, 6.

YARN MANUFACTURE 105—Applied Mathematics—Semester 1. (Campbell)

Two-Year Textile XI: (4 and 0)

This course is designed to present the body of mathematical information which is likely to be of daily service no matter what one's occupation may be|. The examples and problems are gathered from many sources, and are, as far as possible, such as occur in the household, on the farm, in the factory, and at the office.

Text-book: Barker's "Applied Mathematics"

YARN MANUFACTURE 106—Cotton Classing—Semester 2. (Horton.)

Two-Year Agr. XII: (0 and 2)

Practice in the classing of cotton. This course is aranged to suit the needs of students in agriculture.

YARN MANUFACTURE 6—Combers, Sliver Lap, and Ribbon Lap—Semester 2. (Horton)

Senior VIII: (1 and 2)

Construction, setting, and adjustment of sliver lap and ribbon lap machines. Calculations for draft and production of the same. Study of somber, timing, setting for different staples of cotton and production of waste. Operation and management of combers, and all necessary calculations.

Practice in operating the sliver lap, ribbon lap, and comber machines; also in running test lots of cotton through the different machines.

Text-book: Winchester's "Cotton Yarn Manufacture."

YARN MANUFACTURE 8—Mill Economics—Semester 2. (Horton)

Senior VIII: (1 and 0)

The character of this course is descriptive rather than theoretical. Its aim is to explain the principles of economics as applied to general management. This includes the study of cost of production in the various departments, wages and labor conditions, care of mill and mill village. Students will report in class on articles assigned them in technical books and periodicals.

Division Rooms and Equipment.

Picker Rooms.—Pickers—One Atherton automatic feeder; one Atherton breaker lapper; one Atherton finisher lapper. Pickers are equipped with Brown-St. Onge patent adjustable grid bars.

Card Room.—Cards—One Mason 40 inch revolving top flat card.

Double Carding Process.—One Saco and Pettee 40 inch breaker card; one Saco and Pettee 20 inch improved lap winder; one Saco and Pettee 40 inch finisher card.

Combing.—One Mason sliver lapper; one Mason, six head, ribbon lapper.

One Whitin sliver lapper; one Whitin four head, ribbon lapper; one eight head, Whitin high speed comber.

Railway Heads.—One Saco and Pettee railway head, with evener motion, stop motion and metallic rolls; one Mason railway head, with evener motion, stop motion and metallic rolls.

Drawing Frames.—Two Saco and Pettee drawing frames four deliveries, stop motions, metallic rolls; one Mason draw frame, four deliveries, stop motions and metallic rolls; one Whitin drawing frame four deliveries, leather covering rolls.

Fly Frames.—One Saco and Pettee 12 x 6 inch, 40 spindle slubber, with latest differential motion; one Saco and Peetee 6 x 3 inch 80 spindle, fine roving frame, with latest differential motion. one Woonsocket 6 x 2 1-2 inch, 96 spindle jack roving frame, with Daly's improved differential motion.

Ring Spinning.—One Saco and Pettee combination warp and filling ring spinning frame, 128 spindles; one Mason combination warp and filling ring spinning frame, 112 spindles; two Fales and Jenks combination warp and filling ring spinning frames, 80 spindles each designed for spinning fine counts. two Whitin combination warp and filling ring spinning frames, 80 spindles each. One new Fales and Jenks tape drive Westinghouse motor driven 80 spindle spinning frame for both warps filling.

Spooling.—Two Draper spoolers 40 spindles each; one Saco and Pettee spooler, 72 spindles; one Barber-Coleman automatic knotter, one Byrd automatic knotter; One motor driven Westinghouse 24 spindle Eastern and Burnham spooler; one Barber-Coleman knotter "Simplex."

Twisting.—One Draper combination wet and dry twister, 48 spindles; two Fales and Jenks wet twisters, combination filling and taper top wind; 70 spindles each.

Winding.—One universal winder and doubler; one Foster Cone and tube winder.

Reeling.—One Draper 54 inch reel, 50 spindles.

1 set of Washburn wooden spinning rollers, 1 set self weights iron rollers, 1 Alfred Suter direct yarn counters.

Miscellaneous Equipment.—Fairbanks scales; model of Daly's differential motion (complete;) models of Campbell's ball bearing rolls; Brown and Sharpe roving reel; Brown and Sharpe yarn reel; Brown and Sharpe scales and weights; Charlotte Supply Co's. skein tester; model of "Eagle" cotton gin; Fred B. Howe twist counter. Henry L. Scott Yarn and Cloth Tester. Reeves Variable Speed transmission. Bahnson Humidifiers. Bahnson Conditioning machine.

ZOOLOGY AND ENTOMOLOGY

Professor Conradi

Associate Professor Eddy

Assistant Professor Reed.

ZOOLOGY 2—General Zoology—Semester 2. (Eddy and Reed)
Sophomore I, IX, XIII: (3 and 2)

A study of the fundamental principles of structure and life processes of animals followed by a survey of the animal kingdom with particular reference to the economic group. Given by text-book, references, laboratory and field practice, and supplementary lectures.

This course is designed to give the necessary general knowledge of zoology and lay a foundation for the special work in agriculture that follows.

Text-book: "College Zoology"—Hegner.

Laboratory Manual: "Laboratory Manual for Zoology"—Hyman.

ENTOMOLOGY 3—General Entomology—Semester 1. (Reed)
Junior 1, Elective: (2 and 2)
Prerequisite; Zoology 2.

An introduction to entomology. This course embraces the elementary principles of entomology including theoretical and laboratory work on the structure and relationship of insects.

Text-book: "A Manual for the Study of Insects"—Comstock.

ENTOMOLOGY 5—Field Crop Insects—Semester 1. (Eddy)
Senior 1, Elective: (2 and 2)
Prerequisite: Entomology 3.

A study of insects attacking field crops in the field. Careful consideration to life histories and habits as well as culture and farm management as applied to the control of field insects.

ENTOMOLOGY 7—Stored Products Insects—Semester 1. (Conradi and Reed)
Senior 1, Elective: (2 and 2)
Prerequisite; Entomology 3.

A study of the lives and habits of the numerous insects affecting various stored products, careful consideration being given to control measures. Lectures are supplemented by practice work in the laboratory, in the field, and in storage houses.

ENTOMOLOGY 9—Medical Entomology—Semester 1. (Reed)
Senior I, Elective: (2 and 2)
Prerequisite: Entomology 3.

A study of the various insects that are known to or suspected of carrying human diseases. Lectures, laboratory and field practice in biology and practical problems in sanitation.

Text-book: "Animal Parasites and Human Disease"—Chandler.

ENTOMOLOGY 10—Truck Crop Insects—Semester 2. (Eddy)
Senior I, Elective: (2 and 2)
Prerequisite: Entomology 3.

A study of the various insects affecting vegetable crops. The text is supplemented by laboratory and field practice upon typical insects and special attention is given to the application of insecticides and the manipulation of spray machinery.

Text-book: "Manual of Vegetable Garden Insects"—Crosby and Leonard.

ENTOMOLOGY 12—Orchard Insects—Semester 2. (Reed)
Senior I, Elective: (2 and 2)
Prerequisite: Entomology 3.

In this course special attention is given to the insects that attack orchards, small bush fruits, and nut trees. The text-book work is supplemented by practice in the laboratory and the study of control measures in the field.

Text-book: "A manual of Fruit Insects"—Slingerland and Crosby

ENTOMOLOGY 14—Apiculture—Semester 2. (Reed and Conradi)
Senior I, Elective: (2 and 0)
Prerequisite: Entomology 3.

An introductory course in bee keeping which includes a brief study of the life history, races, hives, tools, etc.

Text-book: "Beekeeping"—Phillips.

ENTOMOLOGY 16—Quarantine Methods—Semester 2. (Conradi)
Senior I, Elective: (2 and 2)

This course deals with the various laws governing quarantines. The National Insecticide Act is studied and careful consideration is given to fumigation and other control methods employed in nurseries and propagating beds. This course is open only to students majoring in entomology.

ENTOMOLOGY 18—Insect Anatomy—Semester 2. (Reed)
Senior I, Elective: (2 and 0)

This course is a study of insects in their biological and economic aspects together with practice in advanced anatomy, including laboratory technique. Open only to students majoring in entomology.

ENTOMOLOGY 101—Elementary Entomology—Semester 1 (Reed)
Two-Year Agriculture XII: (2 and 2)

An elementary course involving insect structure and habits. Instruction in spraying and dusting, and cultural methods and insecticides is given.

Text-book: "Insects of Farm, Garden, and Orchard"—Sanderson and Piers

Division Rooms and Equipment

General Laboratory. This laboratory is located on the first floor of the Agricultural Hall, and is eqquipped with simple and compound microscopes, dissecting instruments, lantern slides, models and charts. A new locker system has been installed and the laboratory is also provided with the most modern tables.

Insectary. The insectary is located an the ground floor of the Agricultural Hall, and is eqquipped with the various types of ordinary breeding cages. Several types of Berlese collecting apparatus are provided as well as a system of temperature and moisture control for biological purposes. A complete system of spray and fumigating apparatus is housed in the insectary .

Office of Research Laboratory. The main office and research laboratory of this Division is located on the basement floor of the Agricultural Hall. The office is equipped with modern record systems for operating laboratory, office, and field work. The laboratory is eqquipped with compound microscope, photographic outfit microtome, binocular, dark ground illuminators, and incubators. The entomological collections are kept on the second floor. The economic forms aranged according to food plants, are kept in the museum, while the systmatic and rsearch collections re kept in standard Schmitt boxes in the laboratory .

A carefully selected entomological library is kept in the main office.

VOCATIONAL TRAINING IN CO-OPERATION WITH THE U. S. VETERANS BUREAU.

GENERAL INFORMATION

Organization

MATTHEW L. McHUGH, B. S. Rehabilitation Assistant in Charge of United States Veterans Bureau Work.

WILLIE T. PATRICK, B. S., Instructor in Agronomy.

MONROE E. GARDENER, B. S., Instructor in Horticulture.

EDWARD C. DILLARD, B. S. A., Instructor in Mathematics.

A. G. FERGUSON, Instructor in English.

FANNIE SUE DICKSON, Stenographer.

General Information

The Department of Education of Disabled Soldiers was formed upon request of the United States Veterans Bureau. All men taking instructions in the courses outlined are disabled ex-service men sent to this institution by the U. S. Veterans Bureau. These men are designated as trainees. This institution has designed courses in General Farming according to the standards set by the U. S. Veterans Bureau. The trainees may major in Crops or Horticulture. The courses vary in length, depending on the future plans of the trainee. The maximum length of the course is twenty-four months. The average length of time varies between twelve and fifteen months. The aim of these short courses is to prepare the student for a vocation. This may be running of a farm for himself or for some one else. The courses are, also, designed to prepare the student for other occupations closely related to agriculture. For this reason it is necessary that the student be given a large amount of practical work.

Trainees who have the qualifications are accepted for the two year special textile course offered to college students. This course is described elsewhere.

A trainee who has the qualifications to enter a regular four-year college course will not be allowed to do so until specific instructions to that effect received from the U. S. Vererans Bureau.

The sub-collegiate trainees, when entering are placed in one of two sections, depending on his past education. These sections are designated as "A" and "B". Trainees with an eight, ninth or tenth grade education will be placed in "A" section, while a trainee with an education of the 5th, 6th, or 7th grade will be placed in "B" section.

It is very seldom at this time that a trainee will be sent to this institution by the U. S. Veterans Bureau having an education below the fifth grade.

COURSE I.—GENERAL FARMER—CROPS.

First Year

First Semester	Credits		Second Semester	Credits	
English A	5	(5.0)	English B.	5	(5.0)
Math A	5	(5.0)	Math. B.	5	(5.0)
Cotton and Corn—Agron. A	3½	(2,3)	Small Grains—Agron. E.	3½	(2,3)
Soils and Fertz.—Agron. B	3½	(2,3)	Farm Buildings—Agron. D.	3½	(2,3)
Farm Machinery—Agron. C.	3½	(2,3)	Biology—Agron G.	3½	(2,3)
Horticulture I.	3½	(2,3)	Horticulture I	3½	(2,3)

Second Year.

Summer Semester	Grades		First Semester	Grades	
English B.	5	(5.0)	English C	5	(5,0)
Math. C. and D.	5	(5.0)	Math. C and E.	5	(5.0)
Crops—Agron. A.	3½	(2,3)	Cash Crops—Agron I	3½	(2,3)
Horticulture 1	3½	(2,3)	Farm Engineering—Agron. J.	3½	(2,3)
*Problems	3½	(2,3)	Farm Management—Agron. F.	3½	(2,3)
			Horticulture I	3½	(2,3)

* This is a combined problem in Crops, Farm Machinery, and Farm Management. Also, make up any work that might not have been covered during the year.

Note: This course is subject to change depending upon the previos education and experience of the men, time of entrance and number pursuing the course.

COURSE II.—GENERAL FARMER—HORTICULTURE.

First Year.

First Semester	Cred'ts		Second Semester	Grades	
English A	5	(5,0)	English B.	5	(5.0)
Math A	5	(5.0)	Math. B.	5	(5.0)
Prin. of Hort.—Hort. —A.	3½	(2.3)	Com. Pomology—Hort. C	3½	(2,3)
Fruit Growing—Hort. B.	3½	(2.3)	Small Fruits—Hort. D	3½	(2.3)
Small Fruits—Hort. D	3½	(2.3)	Veg. Growing—Hort. E	3½	(2.3)
Soils and Fertz.—Agron. B.	3½	(2,3)	Gen. Crops—Agronomy H.	3½	(2,3)

Second Year.

Summer Term

	Grades	
English B.	5	(5.0)
Math. C. and D.	5	(5.0)
Economic Entomology and Plant Pathology—Hort. F.	3½	(2.3)
Veg. Growing—Hort. E.	3½	(2.3)
Gen. Crops—Agron. H.	3½	(2.3)

First Semester

	Credits	
English C	5	(5.0)
Math. C and E.	5	(5.0)
Com. Pomology—Hort. C.	3½	(2.3)
Systematic Pom. Hort. H	3½	(2,3)
Landscape Gard.—Hort. G.	3½	(2.3)
Gen. Crops—Agron. H.	3½	(2.3)

Note: This course is subject to change depending upon the previous education and experience of the men, time of entrance, and number pursuing the course.

DESCRIPTION OF COURSES

AGRONOMY "A"—Corn and Cotton—Semester 1. (Patrick)
"A" and "B" section (2 and 3). First year.

This is a detailed course on seed selections, varieties, planting, cultivation, fertilizer, harvesting, storing and marketing corn and cotton. Also, a study of the insects that infest these two crops.

Text-book: "Southern Field Crops"—Duggar.

AGRONOMY "B"—Soils and Fertilizers—Semester 1. (Patrick)
"A" and "B" sections (2 and 3) First year.

In this course the origin, formation, types, moisture, organic matter, germ life, air temperature and plant food of soils are taken up. Also the purchase, mixing and application of fertilizers, fertilizer tests and problems, farm manure and green manure, are covered.

Text-book: "Soils and Fertilizers"—Lyon.

AGRONOMY "C"—Farm Machinery—Semester 1. (Patrick)
"A" and "B" section (2 and 3). First year.

Harvesting machinery, testing of machinery, assembling machinery, explosives, and a short course on gas engines and tractors is covered in this course.

Text-book: "Equipment for Farm and Farmstead"—Ramsower.

AGRONOMY "D"—Farm Buildings—Semester 2. (Patrick).
"A" and "B" section (2 and 3). First year.

The planning and erection of buildings with regard to location, cost, etc., is taken up. It also covers wells, natural and artificial drainage.

Text-book: "Farm Building"—Foster and Carter.

AGRONOMY "E"—Small Grains—Semester 2. (Patrick).

"A" and "B" sections (2 and 3). First year.

The general characteristics, varieties, diseases, and planting winter and summer cover crops, Forage, Crops, Vetch, Alfalfa, Millet and Rape are studied.

Text-book: "Productive Field Crops"—Montgomery.

AGRONOMY "F"—Farm Management—Semester 1. (Patrick).

"A" and "B" Sestion—(2 and 3). Second year.

This is a general course in farm management given as a preparative to project plan work. Those trainees who take up project training on their farm are required in this course to work up his project under the supervision of the instuctor.

Text-book: Warren's "Farm Management."

AGRONOMY "G"—Biology—Semester 2. (Patrick)

"A" and "B" section (2 and 3). First year.

This is an elementary course in Biology. It takes up the various parts of plants, reproduction, comparison with animals, etc.

Text-book: To be selected.

AGRONOMY "H"—General Crops—Semester 2. (Patrick)

"A" and "B" section (2 and 3). First year.

This course covers all major and minor crops in this state, special attention being given to seed selection, cultivation and fertilization.

Text-book: "Field Crop for the Cotton Belt"—Morgan.

AGRONOMY "I"—Cash and Forage Crops—Semester 1. (Patrick)

"A" and "B" Sections. (2 and 3). Second year.

This takes up a theoretical study of the minor cash crops grown in this state, such as tobacco, soy beans, peanuts, etc. Also covers forage crops.

Text-book: "Productive Farm Crops"—Montgomery.

AGRONOMY "J"—Farm Engineering—Semester 1. (Patrick)

"A" and "B" section (2 and 3) Second year.

This course is intended to give the student a working knowledge of the principles of terracing, drainage and land surveying.

Text-book: Scoates' "Surveying and Drainage Notes."

HORTICULTURE "A"—Principles of Horticulture—Semester 1. (Gardener)

"A" and "B" section (2 and 3). First year

This course is designed to give a general preliminary treatment of the field of horticulture, including: (1) the divisions of horticulture and their relation to each other; (2) the principles involved in fruit growing, vegetable gardening, landscape gardening, etc; (3) a special study of the principles of propagation.

Text-book: "Horticulture"—Davis. Notes and References.

HORTICULTURE "B"—Fruit Growing—Semester 1. (Gardener)
"A" and "B" section (2 and 3). First year

General study of fruits with special reference to sites, soils, planting, pruning, spraying, varieties, and the planing and care of home fruit plantations.

Text-book: "Principles of Fruit Growing"—Bailey.

HORTICULTURE "C"—Commercial Pomology.—Semester 2, first year, and Semester 1, second year. (Gardener)
"A" and "B" sections (2 and 3)

This course is an enlargement of Horticulture B. It takes up the growing of fruits on a large scale, and includes cultivation, fertilization, cover and companion crops and harvesting and marketing.

Text-book: "Productive Orcharding"—Sears.

HORTICULTURE "D"—Small Fruits—Semester 1. (Gardener).
"A" and "B" section (2 and 3). First year

Establishing and maintaining a small fruit plantation. Propagation, culture, pruning, spraying, harvesting, and marketing of the grape, strawberry, dewberry, raspberry, blackberry, and other small fruits.

Text-book: "Productive Small Fruit Culture"—Sears.

HORTICULTURE "E"—Vegetable Growing—Semester 2 first year, summer term second year. (Gardener)
"A" and "B" sections (2 and 3)

Principles and practices involved in the production of vegetables for home use as well as for commercial purposes. Each student shall tend his own garden plot. This plot will also contain space for the propagation of hard wood cuttings, grafts, etc.

Text-book: To be selected. Notes.

Reference: Garden Farming—Corbett, Principles of Vegetable Gardening—Bailey, Vegetable Gardening—Watts.

HORTICULTURE "F'—Economic Entomology and Plant Pathology.—Summer term, second year. (Gardener).
"A" and "B" sections (2 and 3)

This course is designed to make a careful study of all the insects and diseases of economic importance to fruit and vegetable crops. As many insects and disease specimens as possible are collected and studied according to life history, habits, characteristics, etc., and control measures.

Text-book: Notes.

HORTICULTURE "G"—Landscape Gardening.—Semester 1. (Gardener)

"A" and "B" section (2 and 3) Second year.

A study of the principles of landscape art to impress upon the student the importance of a well planned, well kept farmstead. Special attention is given to arrangement of various buildings, yards, lots, etc., and to the planting and care of trees, shrubs, and ornamental plants.

Text-book: "U. S. and State bulletins and observation."

HORTICULTURE "H"—Systematic Pomology—Semester 1. (Garner)

"A" and "B" section (2 and 3) Second year.

To familiarize the student with the more common fruits and nuts. It deals with description, nomenclature and classification of fruits, and includes judging, displaying and a study of varietal characteristics.

Text-book: Notes and Reference.

HORTICULTURE "I".—Special Horticulture.—Semester 1, 2 and Summer term. (Gardener)

"A" and "B" section (2 and 3). First and second years.

This course is arranged for students who are majoring in Agronomy. It covers the field of horticulture in general, particular attention being given to the establishing and maintenance of the home orchard. Sites, soils, fertilizers, propagation, planting, pruning, spraying, varieties, etc., of fruits are taken up as well as the home vegetable garden.

Text-book: To be selected. Notes and references.

ENGLISH "A"—Semester 1. First year. (Ferguson)

"B" section. (5.0)

Elementary Principles of the English Language and Composition are given in this course. The reading of this course consists of easy Literature and History, and is supplemented by the practical application of grammar, thought development, word-study and spelling.

Text-books: "The English Language, Book II—Kinard and Withers." "The Elson Reader, Book IV." "Hunt's Progressive Speller, Book II."

ENGLISH "B"—Semester 2 first year, Summer term second year. (Ferguson)

"B" section. (5.0)

In grammar, technical construction and comoposition will be stressed. The reading of the course, Literature and History will be supplemented by the practical application of grammar, thought development, composition, word-study and spelling.

Text-books: "The English Language, Book II." Kinard and Withers. "The Elson Readers—Book V." "Hunt's Progressive Speller, Book II."

ENGLISH "C"—Semester 1. Second year. (Furguson)
"A" section. (5.0)

In grammar, parsing, analysis and diagraming will be ed. The reading consists mainly of Literature, Prose and Poetry, and will be supplemented by practical applicantion of grammar, thought-development, word-study and composition.

Text-books: "The English Language, Book II"—Kinard and Withers. "Higher Lessons in English for Ninth and Tenth Grade Work," Reed and Kellogg. "Elson Readers, Book VI."

MATHEMATICS "A".—Arithmetic—Semester 1. (Dillard)
"B" section (5 and 0). First year.

An elementary course in arithmetic, beginning with addition when necessary and completing sixth grade.

Text-book: "Smith's Advanced Arithemetic."

MATHEMATICS "B".—Arithmetic—Semester 2. (Dillard)
"B" section (5 and 0). First year.

A course in agricultural arithmetic intended to cover the work of the seventh and eight grades.

Text-book: "Rural Arithmetic" and "Smith's Modern Adv. Arithmetic."

MATHEMATICS "C".—General Science—Summer School and Semester 1. (Dillard)
"A" section. (3 and 0). Second year.

A study of the fundamental laws of nature and common phenomena as they are related to the every day life of man.

Text-book: "General Science"—Caldwell and Eikenberry.

MATHEMATICS "D"—Arithmetic—Summer School (Dillard)
"A" section. (2 and 0). Second year.

An advanced course in applied mathematics. The text is supplemented with practical farm problems.

Text-book: "Applied Mathematics"—Palmer

MATHEMATICS "E".—Cost Accounting—Semester 1. (Dillard)
"A" section. (2 and 0). Second year.

An elementary course in farm book-keeping, taking up the analysis of farm expenses and a simple system of crop records. Accurate records are stressed in this couse.

Text-book: "Farm Cost Accounting."

PART VI.—HISTORY, BUILDINGS, ETC.

Historical Sketch of Clemson College

Thomas G. Clemson, after whom the College is named, was born in Philadelphia in July, 1807, and died at the Fort Hill home April 6, 1888.

In 1823, then scarcely 16 years old, he ran away from home, and, after spending some time in England, went to Paris, where he took up arms in the revolution of that time. His gallantry brought him recognition and the friendship of prominent men, resulting in his being given a course in the celebrated School of Mines in Paris. In this school he remained four years, graduating with high honors.

While he was in Europe, his father died, leaving nothing to him in his will. Soon after this he returned to America, and establishing himself in Washington, practiced his profession of Mining Engineer, and accumulated a comfortable fortune. It was here that he met Miss Anna Marie, the eldest daughter of John C. Calhoun, and married her. Two children resulted from this union—a daughter, Floride, who afterwards became Mrs. Gideon Lee, of New York, and a son, John Calhoun Clemson.

Mr. Clemson was a strong advocate of the political doctrine of Mr. Calhoun, and when the war broke out, fearing arrest, he and his son escaped by night in a boat, and walking to Richmond, offered their services to President Davis. Mr. Clemson was assigned to the Trans-Mississippi Nitre Mining Department, where he served until the end of the war. His son was appointed a Lieutenant and assigned to active duty.

At the end of the war, Mr. Clemson with his family came to Pendleton and resided with Mrs. John C. Calhoun until her death in 1866.

Mr. Clemson was interested as far back as this date in the establishment of an Agricultural and Industrial College. In November 1866, a Committee was appointed, consisting of Hon. Thomas G. Clemson, Hon. R. F. Simpson and Col. W. A. Hayne, to appeal to their fellow men for

> "Aid to found an institution for educating our people in the Sciences, to the end that our Agriculture may be improved, our worn and impoverished soils be recuperated, the great natural resources of the South be developed."

In January 1867, at a meeting of the Pendleton Farmers' Society, Mr. Clemson addressed the body in "an able and most interesting and instructional discourse," and submitted in the form of a circular the appeal above referred to. The circular was written by Mr. W. H. Trescot, and closes with the words:

> "Letters and contributions to be directed to the Hon. Thos. G. Clemson, LL.D., Chairman of the Committee, Pendleton, Anderson District, South Carolina."

Again in the minutes of the same Society, of which he was elected President in 1868, under date of Oct. 14, 1869, we find the following:

> "The President, (Mr. Clemson), entertained the Society for half an hour on the subject of Scientific Agriculture, and the Importance of Scientific Agricultural Education."

These citations indicate an early interest on the part of Mr. Clemson in the great cause to which he later devoted his estate.

Previous to the war Mrs. John C. Calhoun had sold the Fort Hill place and negroes to her son, Col. Andrew P. Calhoun, taking in payment his bond and mortgage for $40,200.00. At her death, she left a will, deeding to her daughter, Mrs. Clemson, three-fourths of the value of this bond and mortgage, and to her granddaughter, who at the time of Mrs. Calhoun's death was Mrs. Gideon Lee of New York, the remaining one-fourth of the bond and mortgage.

Shortly after Mrs. Calhoun's death, Mrs. Thomas G. Clemson, after considerable costly litigation foreclosed the mortgage on the Fort Hill place, and at the sale of the property in Walhalla in January 1872, Mr. Clemson, as Trustee for his wife and daughter, bid it in for $15,000,* and he himself paid out of his private funds about $8,000 to cover lawyer's fees, court cost, etc.

In 1871, Mr. Clemson's daughter, then Mrs. Gideon Lee, died, and seventeen days later, his only son, John Calhoun Clemson, was killed in a railroad accident at Seneca. Left childless, Mrs. Clemson willed to her husband, Thomas G. Clemson, all of her estate, "absolutely and in fee simple."†

Mr. Clemson, in his will, left to his granddaughter, Floride Isabella Lee, $15,000 to free the property, which by the same will was donated to the State, from any claim in equity that the granddaughter might have. This was, of course, in addition to one-fourth of the estate which descended to Miss Lee from her mother.

Neither by intention, nor by donation, nor by any form of hereditary transmission does it anywhere appear that John C.

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* See Title Book, Oconee County, P. 177-f.

† See Judge of Probate's Office, Oconee County, Apartment 26, Package 287.

Calhoun had anything to do with the founding of the College which bears Clemson's name.

In 1875 Mrs. Clemson died, and on April 6, 1888, Mr. Clemson followed her to the grave, and was buried in the Episcopal church yard at Pendleton.

Mr. Clemson's will was bitterly contested by the Lee family, but was finally fully sustained by the U. S. Supreme Court. After the settlement of the will, the Trustees of the College bought from Miss Floride Isabella Lee her one-fourth of the estate which adjoined the tract given to the State by Mr. Clemson.

The following extracts are made from Mr. Clemson's will ‡ in order to show clearly his purpose in offering his property to the State for the founding of the Clemson Agricultural College.

* * * * "Feeling a great sympathy for the farmers of this State, and the difficulties with which they have to contend in their efforts to establish the business of agriculture upon a proper basis, and believing that there can be no permanent improvement in agriculture without a knowledge of those sciences which pertain particularly thereto, I have determined to devote the bulk of my property to the establishment of an Agricultural College upon the Fort Hill Place. My purpose is to establish an Agricultural College which will afford useful information to the farmers and mechanics; therefore it should afford thorough instruction in agriculture and the natural sciences connected therewith; it should combine, if practicable, physical with intellectual education, and should be a high seminary of learning in which the graduate of the common schools can commence, pursue and finish a course of studies terminating in thorough theoretic and practical instruction in those sciences and arts which bear directly upon agriculture. But I desire to state plainly, that I wish the Trustees of said institution to have full authority and power to regulate all matters pertaining to said institution, * * * * but to always bear in mind that the benefits herein sought to be bestowed are intended to benefit agriculture and mechanical industries. * * * * I trust I do not exagerate the importance of such an institution for developing the material resourses of the State, by affording its youth the advantages of scientific culture, and that I do not over-rate the intelligence of the Legislature of South Carolina, ever distinguished for liberality, in assuming that such appropriations will be made as will be necessary to supplement the fund resulting from the bequest herein made."

"I therefore give * * * * the aforesaid Fort Hill place where I now reside, formerly the house of my father-in-law, John C. Calhoun, consisting of eight hundred and fourteen acres, more or less, in trust that whenever the State of South Carolina may accept said property as a donation from me, for the purpose of thereupon founding an Agricultural College, in accordance with the views I have hereinbefore expressed, (of which the chief justice of South Carolina shall be the Judge,) then my executor shall execute a deed of the said property to said State and turn over the same all property hereinafter given as an endowment of said institution, to be held as such by the said State so long as it in good faith devotes said property to the purpose of the donation." * * * *

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‡ See Judge of Probate's Office, Oconee County, Apartment 64. Package 671.

"The following named gentlemen, seven in number, shall be seven of the Board of Trustees, to-wit: R. W. Simpson, D. K. Norris, M. L. Donaldson, R. E. Bowen, B. R. Tillman, J. E. Wannamaker, and J. E. Bradley; and the State, if it accepts the donation, shall never increase the Board of Trustees to a number greater than thirteen in all, nor shall the duties of the said Board be taken away or conferred upon any other men or body of men. The seven Trustees appointed by me, shall always have the right, and the power is hereby given them and their successors, which right the Legislature shall never take away or abridge, to fill all vacancies which may occur in their number by death, resignation, refusal to act, or otherwise. But the Legislature may provide as it sees proper for the appointment or election of the other six Trustees, if it accepts the donation. * * * The name of this Institution is to be "The Clemson Agricultural College of South Carolina."

In the codicil to his will, Item 12, occurs the following significant statement:

"The desire to establish such a school or college as I have provided for in my said last will and testament, has existed with me for many years past, and many years ago I determined to devote the bulk of my property to the establishment of an Agricultural School or College. To accomplish this purpose is now the one great desire of my life."

In November 1889, the General Assembly of South Carolina passed the necessary acts authorizing the acceptance of the terms of Mr. Clemson's will, and the establishment of the College. The following extracts are taken from the State laws relating to the College:

Section 1300: "The Honorable Thomas G. Clemson having departed this life on the sixth day of April, A. D. 1888, leaving of force his last will and testament * * * * wherein he devised and bequeathed the Fort Hill plantation, as well as all his other property, both real and personal, except certain legacies in the said will mentioned and provided for, all in trust to convey to the State of South Carolina when the said State shall accept the same for the purpose of establishing and maintaining an Agricultural and Mechanical College upon the aforesaid Fort Hill plantation upon the terms and conditions of said will, **the State of South Carolina hereby expressly declares that it accepts the devise and bequest of Thomas G. Clemson, subject to the terms and conditions set forth in his last will and testament."**... * * * *

Section 1302: "The said College shall be under the management and control of a Board of Thirteen Trustees composed of the seven members nominated by said will and their seccessors and six members to be elected by the Legislature in Joint Assembly."

Section 1304: " That it shall require a two-thirds vote of said Board of Trustees to authorize the expenditure of any moneys appropriated to said College by the State, or to authorize the sale or transfer or re-investment of any property or moneys arising from the sale of any property under the provisions of this Act."

"Section 1319: All the privilege tax on fertilizers heretofore required to be paid to the Commissioner of Agriculture shall in the future be paid to the Treasurer of the State, subject to the order of the Board of Trustees of the Clemson Agricultural College of South Carolina; and so much of the money so received as shall be necessary to defray the expenses of the Board in performing the duties now by this Act devolved upon them shall be thus used, and the balance shall go to the said College, for its erection and maintenance."

It will be seen from the above extracts that the State accepted in good faith the terms of Mr. Clemson's will, features of which were the maintenance of the College, the recognition of the self-perpetuating life membership appointed by Mr. Clemson, and the naming of the College after Mr. Clemson.

In his will Mr. Clemson provides that there should be seven life trustees and that six might be selected by the State. It would seem appropriate to mention that in the appointment of the seven life trustees, Mr. Clemson had two purposes in mind. The State had only recently emerged from negro domination and during a part of that time the doors of the University and of the Citadel had been closed because of the action of a radical legislature admitting negroes as well as whites. Mr. Clemson wished to insure white supremacy in the government of Clemson. Also, at the time he wrote his will, industrial education had no standing with southern educators and the danger of having the college diverted from its purpose into a classical institution loomed large in Mr. Clemson's mind.

At the time of the Act of Acceptance, however, these dangers were overpassed and the Legislature passed the rule that a two-thirds vote of the entire Board of Trustees would be necessary to expend any moneys appropriated to the said college by the State.

This is a historical sketch, not an argument. Whether it were wise to create a separate agricultural and mechanical college located in one corner of the state is now very largely an academic question—likewise it may be a question with some whether the State should have accepted the bequest under the terms of Mr. Clemson's will. In the face of an accomplished fact, logic and lamentation are alike impotent. South Carolinians are more interested in knowing not what might have been done, but what has actually been accomplished. Clemson College itself is the answer to that question.

HISTORY OF THE COLLEGE

The College was opened in July 1893, with an enrollment of 446 students. The session extended from the third Thursday in February to the third Thursday in December, with the idea of giving all students in Agriculture an opportunity to be instructed in the practical phases of that subject during the crop-growing season.

On the night of May 22, 1894, the main College building was burned, but the regular work continued, and the building was promptly re-built.

The first graduating exercises were held in December 1896, the graduating class numbering thirty-seven,—fifteen in the Agricultural Courses, and twenty-one in the Engineering Courses. In the fall of 1897, the session was changed to begin in September and close in June, as it had been found inadvisable to operate the College through the hot summer months. The exercises of the second commencement which would normally have occurred in December 1897, were held February 6 to 9, 1898. The undergraduate classes were continued until June. Owing to the change from winter to summer vacation, there was no class graduated in 1897.

By an act of the State Legislature in the session of 1904, and amended in the session of 1907, 165 beneficiary scholarships were established, of the value of $100 per annum each, and free tuition apportioned among the counties as are the members of the Senate and House of Representatives. The number has since been increased to 170, by the creation of five new counties.

	ENROLLMENT			GRADUATES BY COURSES.									
Years.	Regular Sessions	Summer Sessions	Total Enrollment	Agriculture	Mech.-Elec. Engr. **	Electrical Engr.	Mechanical Engr.	Civil Engr.	**Architecture**	Chemistry (a)	General Science	Textile Engr.	Total Graduates
1893 to 1918	15,598	340	15,938	662	462	....	....	160	11	*25	....	138	1,458
1918—1919	825	132	957	62	15	....	....	6	4	5	.....	7	99
1919—1920	886	128	1,014	80	37	....	....	9	3	7	.....	5	141
1920—1921	847	234	1,081	56	....	21	18	10	2	6	.....	11	124
1921—1922	1,007	301	1,308	49	....	20	16	19	3	8	....	17	132
1922—1923	1,008	478	1,486	55	....	25	20	10	2	5	1	16	134
1923—1924	1,057	591	1,648	48	....	22	14	21	8	3	1	18	135
TOTALS	21,228	2,204	23,432	1,012	514	88	68	235	33	59	2	212	2,223

(a) Includes Chemical Engineering.

(*) Includes 13 graduates in Chemistry and Geology.

(**) Courses separated after 1920.

COLLEGE BUILDINGS AND GROUNDS

Location.—The College is located on the Fort Hill homestead of John C. Calhoun, on the dividing line between Oconee and Pickens counties, in the picturesque foothills of the Blue Ridge. It has an elevation of 800 feet above sea level, and commands an excellent view of the mountains to the north and west, some of which attain an altitude of nearly five thousand feet. The climate is invigorating and healthful, and the surroundings are in every way favorable to the highest physical and mental development.

The College is one mile from Calhoun, a station on the main line of the Southern Railway, and two miles from Cherrys, on the Blue Ridge Railroad. By means of these roads and their connections, the College is easily accessible from all parts of the State. It is connected by telegraph and long-distance telephone with all parts of the country. The post office is conveniently situated on the campus, and receives eight daily mails.

Grounds.—The College grounds comprise about 1544 acres, including the campus, the farm, and the Experiment Station grounds. The campus, including about 200 acres, is laid out in walks, drives, and lawns, and is shaded by a beautiful grove of native forest trees.

"Bowman Field," lying just in front of the Academic, Textile, and Y. M. C. A. Buildings, provides for part of the military drill.

"Riggs Field," a ten-acre athletic field, the largest and best arranged of its kind in the South, is located to the west of the Y. M. C. A. Building, and provides for baseball, football, track tennis, and military drill.

ACADEMIC BUILDING

The Academic Building is a three-story brick structure, 100 by 138 feet, trimmed with gray sandstone. It contains 36 rooms, including recitation rooms, library and reading rooms, literary society halls, physical laboratory, and the offices of the President, the Registrar, the Commandant, the Treasurer, the Director of Student Affairs, and the Director of Athletics. The public **Telegraph Office** is on the ground floor of this building. Adjoining this building is Memorial Hall, the College Chapel, which has a seating capacity of about fifteen hundred. It is used for religious service and as an assembly room. The entire building is provided with steam heat and electric lights.

AGRICULTURAL HALL

The Agricultural Hall is a building 146 by 94 feet, in colonial style, and constructed of red side-cut brick, with columns and trimmings in oolitic limestone. It is furnished with a complete system of electric lights, water and sewer connection, and steam heat; provides class rooms and laboratories for instruction in agriculture, soil physics, botany and bacteriology, zoology and entomology, geology and mineralogy, and offices and laboratories for the Experiment Station. It also contains the Experiment Station library, the museum and gymnasium hall.

ENGINEERING BUILDING

The engineering building is a substantial brick structure containing about 38,000 square feet of floor space. On the first floor are the civil engineering division, testing laboratories, machine shop, wood shop ,forge shop, and foundry. On the second floor are the offices, classrooms and the engineering drafting and designing rooms. The third floor is devoted to architecture.

ELECTRICAL ENGINEERING LABORATORIES

A one-story brick building designed for delicate instrument work, contains the instrument laboratory, the standardizing laboratory, room for storing instruments, supply room, and the division office.

Adjoining the above is another single story brick building which contains the lecture room 25 by 35 feet (equipped with raised seats); the dynamo laboratory 35 by 53 feet; and large dark room and supply room.

TEXTILE BUILDING

This building is a brick structure of modern cotton mill design, 168 by 75 feet. It is of the slow-burning type, built according to fire insurance regulations, after plans of an experienced mill engineer. The building, although designed for educational and experimental purposes, containing office, lecture rooms and laboratories, retains the more prominent features of a typical Southern cotton mill. This affords the student an opportunity of gaining many points of valuable information in connection with mill construction, along with the manipulation of cotton fibres and the study of cotton mill processes and operations.

The first floor is occupied by the picking, carding and spinning machinery, a lecture-room, the main office, an exhibit room, Government cotton testing office and the departmental library. The machinery on this floor is driven by two electric motors, one a 30-hp., 220-volt, direct-current Westinghouse motor, driving the carding machinery, and a 20-hp., 220-volt, direct-current General Electric Company motor, driving the spinning machinery .

The second floor is occupied by two weave rooms, knitting room, three lecture rooms, an office and two store rooms. The power looms on this floor are driven by a 20-hp., 220-volt, direct-current General Electric Company motor.

The basement, which is situated under the north end of the building, is occupied by the dye-house and laboratory for industrial chemistry.

The building is equipped with a system of "Vortex" humidifiers from the American Moistening Company; steam-heating system and automatic fire-sprinklers from the D. A. Tompkins Company; shafting, pulleys and hangers from Jones & Laughlin, Ltd., and from T. B. Wood's Sons.

The Printery, which is located in the south basement of the Textile building, is equipped as follows: One Miehle two-revolution printing press, 30 by 42-inch bed; three Chandler & Price job presses; one Chandler & Price cutter; one Morrison stitcher; two perforators; one letter folder; two Hammond cabinets; two imposing stones; one No. 5 model linotype machine and one No. 14, Single key-board, linotype machine with supply of matrices for same; and one Automatic Miller Feeder and a supply of type, furniture, etc. All the machines are driven by individual motors. The College reports, bulletins and miscellaneous stationery are printed here.

CHEMISTRY BUILDINGS

Two substantial brick buildings of about the same dimensions, each consisting of two stories and a basement, and connected on the first and second floors by glass-covered passageways, are devoted to chemical work. The north building serves partly for academic work and partly for the analytical work of the Fertilizer Analysis Division of the Public State Work of the college. The entire south building is devoted to academic work. Both buildings are well ventilated, heated by steam, and lighted by electricity.

FERTILIZER BUILDING

This is a three-story brick building, situated near the south chemistry building, and containing the offices of the Secretary of the Board of Fertilizer Control, fertilizer tag rooms, etc.

The Clemson College Post Office occupies the ground floor of this building.

VETERINARY HOSPITAL

The Veterinary Hospital is a two-story frame building 48 by 65 feet, with basement 18 by 30 feet. It is furnished with electric lights, hot and cold water, and is heated by means of stoves. The basement contains a store room. The class room, office, pharmacy, and a well-equipped clinic and operating room are on the first floor. A laboratory for class work, a private laboratory and a store room for supplies are on the second floor.

DAIRY BUILDING

The Dairy Building is constructed of red brick trimmed with white stone. In addition to class rooms and laboratories it contains the offices of the following divisions: Animal Husbandry, Dairy, Horticulture, and Education. It is equipped with modern machinery for the manufacture of butter, ice cream and other dairy products, and for teaching modern methods of dairying.

DAIRY BARN

The Dairy Barn will accommodate both the Experiment Station and College herds. It is large enough to house 120 cows and all the feed required for these animals. It has separate box stalls for bulls and young stock. The floors are of cement, and cork brick is used on the floors where the cattle lie. The lighting, ventilation, sanitation, stanchions, stalls, and the equipment for cleaning and feeding are of the most modern type to be found in the country. The milk is handled carefully in accordance with the best practice and experience of modern dairy methods. Nearby is a calf barn and a hog barn embodying the most recent improvements in such buildings. There are also four large cement silos conveniently located, where the stock feed is kept to supply these barns.

Y. M. C. A. BUILDING

This building is in the Italian Renaissance style of architecture, of texture brick with colored tile inserts, terra cotta trimmings, and red tile roof. The interior finish is of stained yellow pine. It contains four floors—basement, mezzanine, first floor, and dormitory floor, giving a total of thirty-six thousand square feet of floor space. It is lighted by the indirect system, and has steam heat and modern water facilities.

The basement contains a basket-ball room, kitchen, quick lunch room, private dining room, general confectionery store and soda fountain, two bowling alleys, swimming-pool, shower and locker rooms, and general toilet.

The mezzanine floor is given over principally to committee rooms, retiring rooms, and balconies.

On the first floor are the general offices, reading games, and lounging rooms, a ladies' club room and an auditorium. The dormitory floor has thirteen living rooms, a literary society hall, a masonic lodge room, and motion picture machine facilities.

The building is handsomely furnished and equipped to make a large contribution to the religious, social, and physical life of the student body and the community.

RESIDENCES

Nine brick and fifty-nine frame residences, situated on the campus, furnish homes for most of the college teachers and officers.

BARRACKS

The cadet barracks comprise three large brick buildings. One is four stories high and contains 247 rooms for students. In the basement of ths building is the dining hall 170 by 44 feet and the kitchen 50 by 37 feet. The second building is 199 by 42 feet, and contains 104 rooms. The third building is 45 by 190 feet and contains 111 rooms.

These buildings are heated by steam and lighted by electricity, and have an abundant supply of pure water. The rooms in the barracks are furnished with single-width iron cots and other necessary appointments. The dining hall is well supplied with table linen, silverware, and china, and the kitchen is furnished with modern culinary appliances.

The bathrooms and toilets are in general, located in brick buildings apart from the barracks and connected with them by covered gangways.

CALHOUN MANSION

The former residence of John C. Calhoun, is kept in honor of his memory, in accordance with the provisions of Mr. Clemson's will.

The Calhoun Relics.—Several pieces of furniture and other interesting relics, formerly the property of Mr. Calhoun, are carefully preserved in the Calhoun Mansion, where they may be seen by visitors to the College.

CLEMSON COLLEGE HOTEL

The Hotel, a frame building with two eight-room annexes, situated on a hill overlooking the campus, is operated by the College. In addition to furnishing a home for many officers and teachers, it is open the entire year to a limited number of transients.

HOSPITAL

The Hospital, located about a quarter of a mile from the barracks, is a wooden building, especially designed for the purpose. It is lighted by electricity, and has a thorough sewerage system. It is in the immediate charge of the Surgeon, who is assisted by an experienced matron and nurse, thus insuring the best personal attention to each patient.

LAUNDRY

This is a brick-building especially constructed and fitted with the improved machinery of a modern steam laundry, and is operated exclusively for the students.

FARM BUILDINGS

The College farm is provided with commodious barns and other farm buildings of modern design, which are described more fully in connection with the equipment for instruction in agronomy.

HORTICULTURAL GROUNDS

The Ornamental Horticultural Grounds are situated south east of the campus. Their acreage is devoted to the growing of various trees, shrubs, and flowers, and affords a beautiful park area as well as a small ornamental nursery. The Experiment Horticultural Grounds are located east of the campus and comprise about twenty acres. This area is devoted to experiments with apples, peaches, grapes, pecans, and small fruits. Vegetable and truck crop experiments are conducted in a fertile bottom along the banks of the Seneca River, about one mile south west of the campus.

The Cannery, a building 25 by 35 feet, is situated in the Horticultural Grounds. It is equipped for canning fruits and vegetables of all kinds.

Greenhouses,—The old greenhouse, 21 by 140 feet, and containing one thousand large pot-plants of various kinds and six thousand small pot-plants, is situated in the Horticultural Grounds.

The new greenhouse, containing a central room 30 by 30 feet, and two wings, each 20 by 30 feet, occupies a prominent place in the center of the campus.

Both are used for experiment work and class instruction in horticulture, botany, etc.

PUBLIC UTILITIES

The General Water Supply is taken form Hunnicutt Creek about three-quarters of a mile above the pump station. The water flows by gravity to a settling basin 36 feet by 36 feet, from there through two gravity filters having a capacity of three hundred and fifty gallons per minute. The filtered water passes to a storage reservoir from which it is pumped into a stand pipe one hundred feet high having a capacity of 130,000 gallons. From this it is distributed from the main to the various college buildings and to all parts of the campus. This water is tested regularly to see that it is kept free from all contaminations.

The Drinking Water Supply is pumped from a bold spring in a continuous stream through the barracks. It is thus furnished fresh pure and cold. This and all sources of water supply are kept under constant and strict surveillance and the waters are frequently analyzed as a precaution against contamination.

The Sewer System.—All of the larger buildings and most of the residences are connected with an adequate sewer system, which empties into the Seneca River more than half a mile from the campus.

LIGHT AND HEAT

All of the college buildings and residences on the campus are lighted by electricity furnished from the central power station. The principal college buildings are heated by steam.

Refrigerating Plant.—In connection with the commissary there is a refrigerating plant consisting of the following: One 6-ton Frick double-cylinder compressor supplied with gauges, etc.; one double-pipe condenser; one triple-pipe brine cooler; 25 cans of 50 pounds capacity each, and a brine reservoir for use in ice-making or refrigeration. The following rooms are cooled by the plant; One room 12 by 13 feet for general storage, one 6 by 8 feet for milk and butter, one 6 by 8 feet for fruit and vegetables, one 6 by 12 feet for meat, and two rooms 6 by 6 feet each, in charge of the Chef, and used for storage of supplies in transit to dining hall

POWER STATION

The central power and heating plant contains two 150-hp. Stirling water-tube boilers, and two 100-hp. Lombard return tubular boilers, two Babcock and Wilcox 150-hp. water-tube boilers with the necessary pumps, feed water heaters, and other auxiliary apparatus.

The power equipment consists of one 114-kw. Fleming sidecrank engine with unaflow cylinder direct conntected to a 70 kw, 2300-volt, three phase alternator, with direct connected exciter, and one 122-hp. Fleming four-valve engine, direct connected to a three-wire 75-kw., direct-current generator, one 200 kw. turbo-generator two stage, 2,300 volt, 3-phase alternating current with direct connected exciter.

A 75-kw. rotary converter is used to convert from one kind of service to another.

The switchboard equipment consists of three standard blue Vermont marble panels, and five black enameled slate panels, all equipped with the latest and best electrical instruments and appliances. The alternators are connected to the rotary converter through three 25-kw. transformers. All the machinery is of the General Electric Company make.

The building is 40 by 108 feet, is a single story of brick and cement blocks, with metal roof.

The plant complete cost about $53,000.00, and is in every way modern and up-to-date. It furnishes steam heat for the barracks and other college buildings, and electric lights and power to every department of the college and residences of the community. The pumping station, situated about one-half mile distant, is electrically operated from this plant. This pumping plant has both steam and electric pumps and an aggregate capacity of 1,100 gallons per minute.

Library—The general library and reference library are located on the second floor of the Academic Building. The Experiment Station Library is located in the Agricultural Building. A reference library is also maintained by the Chemical Department.

There are now approximately 30,400 volumes and approximately 10,000 public documents and governments publications. About 25,000 pamplets are available for reference. In connection with the libraries are suitable reading rooms. There are approximately 300 periodicals accessible to the students.

In the general library are thirty-seven oil paintings collected by Mr. Clemson chiefly in Holland, together with a number of portraits.

The Museum—On the second floor of the Agricultural Building is located the museum of natural history. Large cases contain geological, botanical, and zoological collections of the department. These exhibits are of especial interest as they embrace the minerals and rocks of South Carolina, birds and insects. There are also historical objects in the museum.

CLEMSON COLLEGE ALUMNI ASSOCIATION

The Alumni Association has established a permanent office on the mezzanine floor of the Y. M. C. A. building on the campus. This office is in charge of a permanent secretary, who is employed by the Governing Board of the Association. The Clemson office is a clearing house for all matters concerning the alumni. In addition to keeping accurate records of addresses and information concerning alumni, the Association has established at the Clemson headquarters a bureau for repairing Clemson class rings, and for securing duplicates of these rings.

The Association holds its regular annual meetings at the college on Monday of commencement week. At this meeting all officers, with the exception of the secretary, are elected. The secretary is elected by the Governing Board who is in turn responsible to the general Association for the conduct of its business. The purpose of the Alumni Association it to serve the college and the alumni in every possible way. All correspondence regarding its affairs is conducted through the Clemson office.

Officers Of The Association

G. W. SPEER, '08, President.
I. M. MAULDIN, '96, First Vice-President.
B. O. WILLIAMS, '18, Second Vice-President.
J. R. HENDERSON, '16, Third Vice-President.
E. G. PARKER, '24, Acting Secretary-Treasurer.
P. C. CRAYTON, '15, Rep. Ath. Council.

Governing Board

R. B. WATERS, '16, Term expires 1928.
H. C. WANNAMAKER, '16, Term expires 1927.

H. S. JOHNSON, '10, Term expires 1926.
T. B. YOUNG, '03, Term expires 1925.
T. W. THORNHILL, '14, Term expires 1924.
G. W. SPEER, '08, Ex-officio.
E. G. PARKER, '24, Ex-officio.

PART VII.—SUMMER SESSION

ANNOUNCEMENTS FOR 1924

Summer Session, June 9 to July 19th, 1924.

Mail your application and reserve your room in advance.

Plan to be present on the opening day. A late start is a great handicap.

The opening day is Monday, June 9, 1924.

Immediately upon arrival at the College go to room No. 12 Main Buliding and register.

Transfers meet all trains.

Dormitory No. 1 will be reserved for women, and will be in charge of a matron

Be certain to provide yourself with the necessary articles which you are to bring—bed linen, towels, etc.

SUMMER SESSION STAFF

1923

* WALTER MERRITT RIGGS, B. S., E. M. E., LL. D.
President, Clemson Agricultural College.

FRED HARVEY HALL CALHOUN, Ph. D.
Director of Summer School, Clemson Agricultural College.

JAMES CORCORAN LITTLEJOHN, B. S.
Registrar, Clemson Agricultural College.

CHARLES CARTER NEWMAN, B. S.
Professor of Horticulture, Clemson Agricultural College.

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* Died January 22, 1924.

SAMUEL MANER MARTIN, B. S.
Professor of Mathematics, Clemson Agricultural College.

JOHN HARRIS MITCHELL, M. S.
Professor of Chemistry, Clemson Agricultural College.

WILLIAM HAYNE MILLS, A. B., B. D., D. D.
Professor of Rural Sociology, Clemson Agricultural College.

WILL GILES CRANDAL, B. S.
Professor of Education, Clemson Agricultural College.

WILLIAM EMERA GODFREY, A. M.
Professor of Physics, Clemson Agricultural College.

ALESTER GARDEN HOLMES, B. S.
Professor of History, Clemson Agricultural College.

DUANE B. ROSENKRANS, A. B., M. A.
Associate Professor of Botany, Clemson Agricultural College.

THERMAN KELLEY SISK, A. B.
Associate Professor of Education, Clemson Agricultural College.

MARK EDWARD BRADLEY, A. B.
Associate Professor of English, Clemson Agricultural College.

CHARLES LEE MORGAN, B. S. A.
Associate Professor of Animal Husbandry, Clemson Agricultural College.

GILBEART HOOPER COLLINGS, M. S.
Assistant Professor of Agronomy, Clemson Agricultural College.

WILLIAM HAROLD WASHINGTON, M. S.
Assistant Professor of Agricultural Education, Clemson Agricultural College.

GRAHAM E. WILSON, M. S.
Assistant Professor of Agricultural Education, Clemson Agricultural College.

HAROLD WINSHIP HORTON,
Associate Professor Carding and Spinning, Clemson Agricultural College.

J. L. MARSHALL, B. S.
Assistant Professor of Woodwork, Clemson Agricultural College.

C. G. DEUBER, M. S.
Instructor in Biology, Clemson Agricultural College.

DAVID NIVIN HARRIS, B. S.
Instructor in Drawing, Clemson Agricultural College.

N. R. MEHRHOF, B. S.
Extension Specialist in Poultry Husbandry, Clemson Agricultural College.

MISS SALLIE STRIBLING,
Director of Oconee County Demonstration School, Walhalla, South Carolina.

H. W. GASQUE, A. B.
Superintendent of Schools, Laurens, South Carolina

MRS. M. J. BULLOCK,
Primary Instructor, Loris, South Carolina.

WALTER C. TAYLOR, A. B.
Superintendent of Schools, Gaffney, South Carolina.

L. N. FOY, A. B.
Superintendent of Schools, Liberty, South Carolina.

MISS MARGARET MORRISON,
Principal of Calhoun-Clemson School, Clemson College, South Carolina.

MRS J. B. MEDLOCK, A. B.
Primary Instructor, Greenville City Schools, Greenville, South Carolina.

MISS LOUVAIN VAUGHAN, A. B.
Teacher in Fair Forest Public Schools, Fair Forest, South Carolina.

W. JAY McGARITY, A. B.
Superintendent of Schools, Aiken, South Carolina.

MISS ELEANOR VAUGHAN, A. B.
LaGrange City Schools, LaGrange, Georgia.

MISS MARY I. FLETCHER,
Atlanta City Schools, Atlanta, Georgia.

MISS ALICE J. SELBY,
Columbia City Schools, Columbia, South Carolina.

MISS HELEN GERTRUDE DAVIS, A. B.
Elementary Instructor, Greenville City Schools, Greenville, South Carolina.

J. H. HOPE,
Lecturer. State Superintendent of Education, Columbia, South Carolina.

S. H. EDMUNDS,
Lecturer. Superintendent of Schools, Sumter, South Carolina.

B. L. PARKINSON, M. A.
Lecturer. State High School Inspector, Columbia, South Carolina.

MISS WILL LOU GRAY,
Lecturer. Adult School Supervisor, Columbia, South Carolina.

W. H. HAND,
Lecturer. Superintendent of Schools, Columbia, South Carolina.

J. A. STODDARD, B. A.
Lecturer. Professor of Secondary Education, University of South Carolina, Columbia, South Carolina.

GENERAL INFORMATION

Expenses.—Board and room will be at the rate of $20.00 per month. The registration and incidental fee for teachers will be $6.00. The cost to teachers for the six weeks will be $36.00.

The cost of the Course in Cotton Grading including board, registration fee and laboratory fee will be $25.00.

Students taking college "make-up" courses and entrance courses will be charged, in addition to the board, a tuition fee of $5.00 for each course taken up to three courses with a maximum tuition charge of $15.00 for three or more courses.

All fees are to be paid at the time of registration. No reduction in board will be made for absences of less than a week.

Co-operating Lecteurers.—As has been customary in the past, a number of leading educators will be invited to address the summer session on problems of interest to every teacher. The list of speakers includes men and women from State Departments of Education, principals and superintendents of public schools, county superintendents of education, instructors in colleges and universities, and specialists along certain lines. An attempt will be made to secure capable speakers to discuss problems of the one-teacher school, the rural-graded school, and the rural and city high schools. Special hours will be arranged for visiting speakers to meet various groups of teachers who are interested in particular problems.

Round Tables.—A definite series of round table conferences are planned as a part of the regular instruction for county superintendents; principals and superintendents of schools; primary, elementary, and high school teachers; and teachers of special subjects. From time to time people other than instructors and students are invited to participate in these conferences.

A conference for teachers of agriculture will also be held during the summer session.

The Demonstration Class.—One of the most instructive and interesting features of the summer session will be the demonstration class. This class will be composed of children in the first second, third, and fourth grades. The class will be in charge of one of the leading primary specialists in the state, and should provide an opportunity for primary and elementary teachers to observe the teaching of reading, writing, spelling, and other subjects. This work should also interest superintendents, principals, and other school officials who do supervisory work.

State Laws on Examination and Certification of Teachers.—The plans for the Clemson College summer session are designed to meet in so far as possible the teachers' certification laws of the State. Teachers are given an opportunity to renew their certificates, prepare for State Teachers' Examinations, and qualify for professional certificates.

One of the conditions for the renewal of teachers' certificates is attendance at an approved summer session. Section 13 of the Laws and Regulations of the State Board of Education reads as follows:

"The renewal of any certificate of any class or any grade will be allowable only after the holder has presented satisfactory written evidence of successful classroom teaching experience covering half the term of the certificate, together with acceptable work in an approved summer school during at least one summer and also one year's satisfactory reading circle work."

That part of the State law (Section 10) relating to the certification of high school graduates who wish to receive a general elementary second grade certificate without examination reads as follows:

"A general elementary second grade certificate shall be issued to any high school graduate possessing a state high school diploma submitting a recommendation from the superintendent or principal under whom he or she was graduated, together with the record of six weeks' successful summer school work in at least three professional courses."

Sections 9, 10, and 11 read in parts as follows:

" A first-grade professional . . . . certificate may be issued to any A. B. or B. S. graduate of an accredited college having twelve semester hours in education, shall be valid for a term of five years and may be renewed."

Teachers' Registration Bureau.—The College maintains a Registration Bureau for teachers seeking positions. Through the Registration Bureau many teachers may be able to locate in desirable positions and beginning teachers, no doubt, will find it to their advantage to register.

Graduate Study in the Summer Session.—Persons who are graduates of approved colleges and universities are offered an opportunity in the summer session to pursue graduate studies. The residence requirements for the master's degree may be met by attendance at four summer sessions. Persons interested in graduate study are requested to write for further information.

Credits.—All courses carrying undergraduate and graduate credit are so designated. The educational courses carrying collegiate credit may be applied on professional certificates. All subject matter and educational courses carry certification credits for renewal of certificates. Credit earned in summer sessions may be applied toward degrees of the College.

COURSES OFFERED IN THE SUMMER SESSION

Courses are planned to meet the needs of the following groups of people:

1. Teachers, superintendents, and administrators
2. College students who desire to make up work
3. College entrance
4. Disabled ex-service men
5. Cotton graders
6. Agricultural club boys
7. Farmers.

Teachers, Superintendents, and Administrators.—The summer session is planned to meet the needs of those primary, elementary, and high school teachers, and principals and superintendents who desire further preparation for the State Teachers' Examination, to renew certificates, to qualify for professional certificates, to improve their professional training, and to earn collegiate credit to apply on a bachelor's or master's degree.

The Clemson College Summer Session, also, offers a wide range of special subjects. Teachers of manual training, writing and drawing, natural science, elementary agriculture and nature study, and vocational agriculture will find courses of study in subject matter and education designed to meet their needs.

County Superintendents and other educational officials will find a wide range of courses suited to their needs.

COURSES FOR TEACHERS, SUPERVISORS, AND ADMINISTRATORS.

UNDERGRADUATES COURSES

Agriculture

Number	Title	Credit Hours
1s	Farm Shop	3
2s	Agronomy	3
3s	Animal Husbandry and Dairying	3
4s	Poultry	3
5s	Horticulture	3
6s	Advanced Horticulture	3
7s	Landscape Gardening	3
	Natural Science	
8s	Biology	3
9s	Botany	3
10s	General Zoology	3
11s	General Chemistry	4
12s	Physics	3
13s	Hygiene and Sanitation	3
	Mathematics	
14s	Algebra	
15s	Plane Geometry	
	Social Science	
16s	American History	3
17s	Civics	2
18s	Economics	2
19s	Sociology	2
20s	Rural Sociology	2
	English	
21s	Composition and American Literature	2
22s	Rhetoric and English Literature	2
23s	Technical Writing, Public Speaking, Argumentation	2
	Manual Training	
24s	Manual Training	2
	Athletic Coaching	
25s	Football, baseball, and track	
	Physical Training and Community Activities	
26s	Swimming	
27s	Community Activities	
28s	Community Singing	
29s	Physical Training and Games	2

Library Methods

30s	Library Methods	2

Education

31s	General Primary Methods	2
32s	Methods of Teaching Number Work	2
33s	The Teaching of Reading	2
34s	The Teaching of Writing	2
35s	The Teaching of Music (grades 1-3)	2
36s	The Teaching of Music (grades 4-7)	2
37s	General Elementary Methods	2
38s	The Teaching of Arithemetic	2
39s	The Teaching of Geography	2
40s	The Teaching of Drawing (grades 1-3)	2
41s	The Teaching of Drawing (grades 4-7)	2
42s	The Teaching of History	2
43s	The Teaching of English	2
44s	Educational Psychology	2
45s	History of Education	2
46s	School Management	2
47s	The Development of Courses of Study in Secondary Subjects	2
48s	Rural School Problems	2
49s	School Law	2
50s	Methods in Teaching Natural Science	2
51s	Principles of Teaching	2
52s	Special Methods in Teaching Nature Study and Elementary Agriculture	2
53s	Tests and Measurements	2
54s	Special Methods in Teaching Agriculture	3

GRADUATE COURSES

Education

100s	Advanced Educational Psychology	2
101s	Learning Process	2
102s	Tests and Measurements	2
103s	Secondary Education	2
104s	High School Administration	2
105s	Principles of Teaching	2
106s	Statistics Applied to Education	2
107s	Public School Administration	2
108s	Seminar in Secondary Education	1
109s	Seminar in Agricultural Education	1
110s	Seminar in Educational Pshchology	1

Natural Science

Graduates Courses may be arranged for in Natural Science.

OTHER COURSES

College Students Who Desire to Make Up Work.—Courses will be offered to college students who have "back work" which they are permitted to remove. The courses will be of assistance to students who are irregular and who need to remove failures before entering the next higher class. By attending the summer session, certain students may save the expense of an extra year in college.

The following freshman and sophomore courses will be offered. Agronomy, animal husbandry, shop, botany, biology, zoology, history, drawing, English, mathematics, physics, and chemistry.

A course will not be given unless there are five or more students enrolled.

Disabled Ex-Servce Men.—Clemson offers throughout the entire year courses adapted to the needs of disabled soldiers and sailors in training under the Vocational Rehablitation Act. This vocational training work will be continued through the summer session.

Cotton Graders.—The course in Cotton Grading will begin promptly on July 9th. This course will run for a period of three weeks and is limited to fifteen students. If there is a sufficient demand, a second course will be given during the remaining three weeks of the summer session. The first part of the course will be devoted mainly to handling and grading samples. Standard cotton samples will be used by the students in comparing results. An ample supply of samples will be available for class use.

After the student becomes reasonably proficient in the handling and grading of samples, brief courses in cotton marketing, cotton economics, and the preparation and handling of cotton for the market will be given. The work will be in charge of competent instructors and special lectures on marketing and other subjects connected with the raising and grading of cotton will be given by members of the College Faculty and by the Experiment Station and Extension Services forces. It is also planned to have occasional talks from the Government experts and from individuals connected with some of the large mills in the Piedmont section of the State.

Persons interested in the Cotton Grading Course are advised to forward their applications in advance, rather than come to the college without making application.

Agricultural Club Boys.—This year short courses in practical agriculture will again be offered to the Agricultural Club Boys of the State. Some of the boys win scholarships which pay all expenses while here, but many others pay their own expenses. All boys approved by their club leaders are welcome. The courses are arranged so that the boys have something to do at all times.

During the play hours, they may have the use of the swimming pool and athletic field or go on hikes around the college.

Farmers.—It is a practice at Clemson College to give short courses on poultry husbandry, boll weevil poisoning, and other lines of griculture in the summer months.

Courses For Removal Of Entrance Conditions.—Certain courses will be offered to boys for the removal of entrance conditions. The conditions may be due to failures in high school subjects or the inability of the high school to make the required number of units.

The courses will be open only to boys and arrangements must be made in advance.

PART VIII.—PUBLIC SERVICE

THE AGRICULTURAL EXTENSION SERVICE

The agricultural extension work of the college is carried on by the Extension Service in co-operation with the United States Department of Agriculture. The work is supported by Federal appropriations and in part by State and County appropriations. The main development of extension work has come since the enactment of the Smith-Lever Act in 1914. The purpose of Extension work is to instruct farmers of the state in the practical application of the principles of improved agriculture in both production and marketing. A staff of specialists, some of whom are also members of the Agricultural Faculty, assist the county agents in planning and carrying out demonstrations with farmers over the state.

Publications.—A large number of publications, including bulletins, circulars, posters, and information cards are distributed annually. The Weekly News Notes is published to carry matters of timely and practical interest to the editors and a few farmers of the state. A free press plate service is also furnished to those papers requesting it. In addition to this, news letters are issued on an average of three times per week and these are sent only to the newspapers.

County Agents.—Every county in the state, by co-operation in providing the finances, may have a county agent. These agents are agricultural college graduates who have had practical farm experience. They devote their time to instructing farmers through demonstrations, personal conferences meetings, community organizations, publications and letters.

Home Economics Work.—This work is carried on under the immediate supervision of Winthrop College. It is, however, a part of the Extension work under the Smith-Lever Act, and as such is under the general direction of the Extension Service. Nearly every county is provided with one home demonstration agent in the same way that they are provided with county agents.

Negro Demonstration.—A few negro local agents are employed to work with the negro farmers of the state in sections where the negro population is great. These agents are employed in co-operation with the State College at Orangeburg, and the President of the State College acts as District Supervising Agent.

Live Stock.—Work in this project is carried on with the idea of promoting the live stock interest of the state along sound permanent lines, and much progress has been made during recent years especially with hogs. The remarkable increase in the number of hogs is no greater than the increase in quality. Those desiring to purchase pure breds can now, in most cases secure them within the state from breeders who have been assisted by the Extension Service. Live stock agents have also stimulated the growing of pastures and forage crops and have assisted in the feeding and marketing of cattle and the co-operative purchase of fencing materials.

Dairying.—The Extension dairymen devote their time chiefly to development work such as bull associations, feed campaigns, dairy schools, construction of silos, barns purchase of dairy cattle and the testing and improvement of herds. This state now ranks second in the United States in number of co-operative bull associations. The time has come when farmers wishing to purchase purebred dairy cattle can obtain first class animals within the state and very few importations are necessary.

Corn and Cotton Breeding.—Variety tests of corn and cotton are conducted in a dozen localities in the state along with demonstrations in the field selection of corn and cotton. Up to date this work has resulted in showing what varieties of corn and cotton are best adapted to different sections of the state, and farmers are generally planting those varieties. A number of communities are being given assistance in organizing for growing only one variety of cotton and one of corn.

Orchards, Gardens and Potato Storage Houses.—Orchard demonstrations, potato storage houses, home gardens and co-operative canneries are the principal lines of work developed by the Extension horticulturists. The results obtained in the last few years along these lines are far reaching, and point the way for the proper utilization of some of our acres under boll weevil conditions.

Poultry Work.—The plan is to establish and develop representative poultry plants in a number of counties in the state. These furnish reliable breeding centers from which pure bred poultry of popular breeds can be secured at reasonable prices by farmers and others. The wisdom of increasing the size and quality of farm flock is now being emphasized, together with efficiency in marketing poultry products.

Marketing.—Efforts are made to secure convenient and profitable marketing arrangements for the various crops of the state especially truck. The organization of co-operative marketing associations is being encouraged. Proper grading and loading for shipment are stressed, particularly where farmers are just begining to produce a new crop, the College through the Extension work has been instrumental in helping to bring into existence co-operation marketing association for selling cotton, tobacco, etc.

Entomology.—There are two principal lines of this work; first boll weevil work, and second, bee keeping work. One specialist is employed who gives a part of his time to the boll weevil work, instructing farmers as to the life history, habits, etc., of the weevil and control measures.

A specialist in bee keeping is employed to develop this industry and it has been found that this state has great possibilities along this line.

Boys' Club Work and Short Course.—Corn clubs and pig clubs and other agricultural clubs are organized with the idea of enlisting the intelligent interest of the boys and through them their parents, in improved methods of agriculture. To the winners of certain contests short courses are provided at the College during the summer months.

Organizations.—Whenever conditions are suitable for community organizations, these are encouraged and the full support of the Extension Service is lent towards making them successful.

Extension Service Staff

W. W. LONG	Director
D. W. WATKINS	Assistant Director
L. V. STARKEY	Chief, Animal Husbandry Division
L. H. McKAY	Extension Livestock Specialist, Aiken, S. C.
A. L. DuRANT	Livestock Agent, Florence, S. C.
J. P. LaMASTER,	Chief, Dairy Division
C. G. CUSHMAM,	Extension Agent in Dairying

W. J. KEEGAN, ... Extension Agent in Dairying, Florence, S. C.
C. P. BLACKWELL .... Chief, Agronomy Division
J. L. CARBERY, Extension Agronomist (plant breeding) Spartanburg, S. C.
S. L. JEFFORDS, Extension Agronomist (forage crops) Spartanburg, S. C.
C. C. NEWMAN, ... Chief, Horticultural Division
A. E. SHILLETTER, ... Extension Horticulturist
E. H. RAWL, ... Extension Horticulturist
D. H. HALL, ... Extension Poultry Specialist
FRED L. HARKEY .... Agent in Marketing, Spartanburg, S. C.
L. H. LEWIS, ... Extension Agent in Marketing, Florence, S. C.
D. D. WHITCOMB, ... Extension Agent in Marketing, Aiken, S. C.
C. A. OWENS .... Specialist in Packing and Grading, Aiken, S. C.
A. F. CONRADI, ... Chief, Division of Entomology
E. S. PREVOST, ... Bee Keeping Specialist
W. D. MOORE .... Extension Plant Pathologist
B. O. WILLIAMS .... Agent Boys' Club Work
I. D. LEWIS, ... Agent Boys' Club Work
A. B. BRYAN, ... Agricultural Editor
A. L. MERRITT, ... Asst. Agricultural Editor.

District Agents.

A. A. McKeown	First District	Rock Hill, S. C.
T. B. Young	Second District	Florence, S. C.
A. H. WARD	Third District	Aiken, S. C.

County Agents.

Name	County	Post Office
Z. D. Robertson	Allendale	Allendale
C. A. Rose	Abbeville	Abbeville
C. Lee Gowan	Aiken	Aiken
S. M. Byars	Anderson	Anderson
	Bamberg	Bamberg
H. G. Boylston	Barnwell	Blackville
C. L. Baxter	Beaufort	Beaufort
C. L. McCaslan	Calhoun	St. Matthews
T. H. Harrey	Berkeley	Pineopolis
G. C. McDermid	Charleston	Charleston
H. K. Sanders	Chester	Chester
W. J. Tiller	Chesterfield	Chesterfield
S. C. Stribling	Cherokee	Gaffney
F. M. Rast	Clarendon	Manning
H. M. Kinsey	Colleton	Walterboro
	Darlington	Darlington
S. W. Epps	Dillon	Latta
T. M. Cathcart	Dorchester	St. George

	Edgefield	Edgefield
R. H. Lemmon	Fairfield	Winnsboro
J. W. McLendon	Florence	Florence
M. M. McCord	Georgetown	Georgetown
W. R. Gray	Greenville	Greenville
E. P. Gulledge	Greenwood	Greenwood
	Horry	Conway
Gus York	Hampton	Hampton
	Jasper	Ridgeland
J. W. Sanders	Kershaw	Camden
W. F. Howell	Lancaster	Lancaster
C. L. Vaughan	Laurens	Laurens
J. P. Quinerly	Lee	Bishopville
	Lexington	Ballentine
O. E. Baker	Marion	Mullins
G. H. Stewart, Jr.	Marlboro	Bennettsville
J. C. Miller	McCormick	McCormick
T. M. Mills	Newberry	Prosperity
Rudolph Farmer	Oconee	Walhalla
	Orangeburg	Orangeburg
T. A. Bowen	Pickens	Pickens
J. R. Clark	Richland	Columbia
J. M. Eleazer	Sumter	Sumter
Claude Rothell	Saluda	Saluda
Earnest Carnes	Spartanburg	Spartanburg
W. D. Wood	Union	Union
	Williamsburg	Kingstree
L. W. Johnson	York	Sharon

THE SOUTH CAROLINA AGRICULTURAL EXPERIMENT STATION

The Agricultural Experiment Station of South Carolina is a department of Clemson College. The experiment station at present consists of the main station, which is located at Clemson, and two sub-stations, one in the coast region, located at Summerville, and one in the Pee Dee section, located at Florence. The main offices and laboratories of the station occupy the second floor of the Agricultural Hall, while the station experiment farm, consisting of about 200 acres, is east of and adjoining the college campus. The investigations dealing with the fundamental principles of agricultural sciences and with the application of such principles to practical agricultural operations are carried on in the laboratories and on the experiment station farm at Clemson. The experiments looking to the adaptation of such scientific data accumulated here and elsewhere to the conditions peculiar to certain sections of the State are carried on at the sub-stations and at branch laboratories established in certain sections of the State for this purpose.

It is the aim of the experiment station to carry on research work on problems which have a direct practical bearing on the agriculture of the State. With this end in view elaborate experiments relative to the best methods of procedure under various conditions with the principal plants and animals have been undertaken. As progress is made with such experiments the results obtained are given out to farmers in the form of bulletins, circulars and personal letters. Since the establishment of the station 218 such bulletins and 30 circulars have been published, covering practically all phases of agriculture.

Aside from the research work and the publication of results obtained from such research the experiment station performs various other duties. Among these might be mentioned the entomological and pathological inspection work which aims to protect the farms, orchards and gardens of the State against the introduction of injurious insects and diseases; the biological and soil survey of the State; and the cooperative experimental work carried on with hundreds of farmers in the State. The technically trained experts of the station staff are regarded as authorities in their several specialties and they are constantly giving out information relating to the various lines of agricultural endeavor. More than fourteen thousand personal and circular letters are written annually to residents of the State giving technical information to individuals on special subjects. The station staff also aids in disseminating agricultural knowledge by co-operating with the Extension Service of the college in holding agricultural meetings and conferences and by meeting with the farm demonstration agents and giving to them technical information which they in turn carry through the demonstration work direct to the farmers.

Close cooperation is maintained with the various research bureaus of the National Department of Agriculture and with the departments of the college. The laboratories are always open to the inspection of the students and other people of the State. The same is true of the experiment station farm. There is always opportunity for a limited number of students to secure work in the various divisions of the station and to assist in the research work carried on by the members of the station staff.

All publications of the experiment station are sent free upon request to any resident of the State. Requests for these should be addressed to H. W. Barre, Director, Clemson College, S. C.

Cooperative Experimental Work.—This work is carried on under the supervision of the Director of the Experiment Station. Many farmers are enrolled in this important line, which includes a repetition of many of the experiments conducted at the parent experiment station located at the college. Co-operative experimental work is intended to verify new facts and laws under the various soil and climate conditions in South Carolina.

Branch Experiment Stations.—In order to reinforce the main experiment station located at the college, two additional branch stations have already been established, one at Drainland in the coastal plain, and another near Florence, in the Pee Dee section. It is planned to locate a third station in the Sand Hill section of the State as soon as the college has funds for this extension.

These stations are devoted primarily to experiment work. They also form centers of dissemination for the information which the college has to give to the people.

Experiment Station Staff

H. W. BARRE, A. M., Botanist and Director.
C. C. NEWMAN, B. S., Horticulturist.
A. F. CONRADI, M. S., Entomologist.
R. O. FEELEY, D. V. S., Consulting Veterinarian.
C. P. BLACKWELL, M. S., Agronomist.
A. B. BRYAN, B. S., B. Litt., Agricultural Editor.
L. V. STARKEY, M. S., Animal Husbandman.
J. P. LaMASTER, B. S. Agr., Dairyman.
R. N. BRACKETT, Ph. D., Chemist.
C. S. PATRICK, B. S., Supt. of Farms.
R. E. CURRIN, Supt. of Pee Dee Expt. Station, Florence, S. C.
J. A. RILEY, M. S. Supt. of Coast Expt. Station, Summerville, S. C.
N. E. WINTERS, Ph. D., Head Division of Boll Weevil Control, Florence, S. C.
W. L. LIPPINCOTT, B. Chem., Chemist.
C. A. LUDWIG, Ph. D., Associate Botanist and Plant Pathologist.
W. B. AULL, B. S., Associate Bacteriologist.
T. S. BUIE, B. S., Associate Agronomist.
A. M. MUSSER, B. S., Associate Horticulturist.
E. G. GODBEY, B. S. A., Associate Animal Husbandman.
E. E. HALL, M. S. Agronomist, Boll Weevil Control, Florence, S. C.
W.B. RODGERS, B. S., Assistant Agronomist.
C. B. NICKELS, M. S. Research Assistant Entomologist.
E. D. KYZER, B. S., Research Assistant, Florence, S. C.
G. H. AULL, B. S., Assistant to Director of Research.
W. C. JENSEN, M. S. Assistant in Farm Economics.
R. W. MORELAND, M. S., Assistant Entomologist,* Florence, S. C.
V. V. WILLIAMS, M. S. Assistant Entomologist,* Florence, S. C.
H. C. YOUNG, M. S., Assistant Biologist,* Florence, S. C.
H. S. CcCONNEL, M. S., Assistant Entomologist, Florence, S. C.
J. D. WARNER, M. S. Assistant Agronomist.
F. C. SHELTON, B. S., Assistant Dairyman.
C. O. EDDY, M. S., Associate Entomologist.
BURNS GILLISON, Foreman, Experiment Station Farm.

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*Detailed by United States Department of Agriculture.

LIVE STOCK SANITARY WORK

The Clemson College Live Stock Sanitary Office is a department of Clemson College and is under the supervision of the Agricultural Committee of the Board of Trustees. This office is located in Columbia, S. C., in order that the best interests of the livestock industry may be served, and is in charge of the State Veterinarian, Dr. W. K. Lewis, who is also Director of this Department.

The principal functions of this office are: Tick Eradication, Tuberculosis Eradication and Hog Cholera Control. In addition to these, all reported outbreaks of contagious, infectious and communicable diseases of live stock are investigated, and measures recommended for the control and eradication of the specific condition; and quarantine is maintained against the introduction of diseased livestock into the State.

The Columbia office has recently established a fully equipped laboratory for bacteriological and pathological work, in order that proper and prompt diagnosis of certain diseases may be made. Parasitic research work will be conducted in various sections of the State in connection with the Columbia laboratory.

In addition to the force of veterinarians working out from the Columbia office, Assistant State Veterinarians are located at strategical points in the State so as to be readily available to the farmers in their respective territories.

On July 1, 1923 twenty-six (26) practicing veterinarians of the State were commissioned as Deputy State Veterinarians, to assist the State Veterinarian in the control and eradication of contagious and infectious diseases of livestock. The Deputy State Veterinarians are located principally in the northern and eastern sections of the State, and with the Assistant State Veterinarians located in the middle and southern sections of the State, the Clemson College Live Stock Sanitary Office is in position to render a service to the livestock industry of the State in keeping with its development and maintain the service to the highest degree of efficiency.

The Clemson College Live Stock Sanitary Office also maintains an equipment for handling large stocks of anti-hog cholera serum, virus and veterinary biologics and furnishes these products to the citizens of the State at cost, thereby effecting a saving to them of several thousands of dollars annually.

The live stock sanitary work is required by legislative enactment and is supported by legislative appropriations.

The Bureau of Animal Industry, U. S. Department of Agriculture, co-operates in Tick Eradication, Tuberculosis Eradication, and Hog Cholera Control, and duplicates the amounts appropriated by the State Legislature for these projects.

List of employees engaged in livestock sanitary work:—

State Veterinarian and Director.—W. K. Lewis.

Laboratory Veterinarian.—J. H .Reitz.

Assistant State Veterinarians.—H. S. Brundage, E. T. Fisher, H. B. Hood, W. D. McCormack, R. A. Mays, F. K. Peterson, S. D Shoulkin, S. M. Witherspoon, Jr., M. L. Boyd, J. H. Yarborough Jr.

Clerks.—R. K. Donly, J. E. Wilson, J. M. Leaphart.

Deputy State Veterinarians.—R. M. Bailey, W. A. Barnette, M. R. Blackstock, J. W. Boylston, F. P. Caughman, J. T. Dixon, H. P. Dyches, C. H. Ellis, Jr., Louis Friedham, H. L. Frieze, R. H. Glenn, M. Harkavy, L. J. Hogan, J. E. Hollis, O'Neal Jacobs, T. B. Jacobs, T. J. Kinard, F. E. Kitchen, G. J. Lawhorn, W. K. Magill, J. H. Morse, Benj. McInnes, B. K. McInnes, R. R. Salley, E. P. Stanton, B. C. Talley.

MISCELLANEOUS PUBLIC SERVICE

Fertilizer Inspection and Analysis.—The work of fertilizer inspection and analysis is under the supervision of the Board of Control consisting of ex-Governor Richard I. Manning, chairman J. E. Wannamaker of St. Matthews, J. J. Evans, Bennettsville, and H. C. Tillman, of Greenwood. The work of inspection is under the immediate supervision of H. M. Stackhouse, Secretary of the Board of Control.

There are ten inspectors to look after this feature of the work in different parts of the State.

The work of analysis is carried on in the Fertilizer Analysis Division of the Chemical Department and is under the supervision and direction of Dr. R. N. Brackett, Chief Chemist.

The work consists of the analysis of commercial fertilizers as provided for by the Fertilizer Law of the State. This Division also undertakes the analysis of waters, ores, minerals, and other naturally occurring materials, except soils (which are analysed by the Experiment Station), portions of human bodies in cases of suspected poisoning, as provided for by law, and the analysis of home-mixed fertilizers. All the work of this Division is done free of charge.

Entomological and Pathological Inspection.—This work is carried on under the direction of the State Crop Pest Commission.

The State Entomologist is Prof. A. F. Conradi, head of the division of Entomology, and the State Pathologist is H. W. Barre, head of the division of Botany and Bacteriology.

The work of these officers consists of the control of contagious plant diseases and insect pests. The State Entomologist has also supervision of all nursery stock sold within the State.

A permit tag issued by the State Crop Pest Commission should be attached to every package of nursery stock seed or plants offered for sale or shipment for planting purposes.

Agricultural and Textile Scholarships.—The college maintains 170 four-year agricultural and textile scholarships, and fifty-two one-year agricultural scholarships. Each scholarship is worth $100 and free tuition. The cost of these scholarships is paid out of the fertilizer tax, as the State makes no appropriation therefor.

The annual cost of these scholarships, including advertising, expense of holding examinations, etc., is about $20,000.00.

School Houses.—The college also furnishes free plans and specifications for rural school buildings to school trustees desiring to erect a new school house, and will advise and furnish drawings for alterations of old school houses. This work was undertaken at the request of and under the direction of the State Superintendent of Education. Further information and a copy of a bulletin on "Rural School Buildings" will be furnished by Rudolph E. Lee, college architect, upon request.

Miscellaneous.—In addition to the above regular lines of activity, the College manufactures at cost the South Carolina flag in a number of different sizes, makes annually an exhibit at the State Fair, and engages in other miscellaneous activities.

PART IX.—REGISTER

THE CORPS OF CADETS

1923-1924

UNITED STATES ARMY PERSONNEL

Major Madison Pearson,	Infantry
Captain Henry W. Lee	Infantry
Captain Alfred G. Braden Jr.	Infantry
Captain Thomas E. May	Infantry
Captain Loyd Van Horne Durfee	Infantry
Lieutenant Harold R. Emery	Infantry
Staff Sergeant Jesse M. Peck	Infantry
Sergeant Frank S. Singer	Infantry

CADET REGIMENTAL ORGANIZATION

Colonel S. S. Hamilton

Lieutenant Colonel A. L. McCrary

Captain J. B. Owens, Adjutant

Captain S. A. Rodgers, Supply Officer

Captain L. C. Wright, Intellegence Officer

Captain L. C. Tolleson, Chaplain

Regimental Sergeant Major C. L. Kehew

Color Sergeant T. G. Roche

Color Sergeant W. B. Williams

BAND

CAPTAIN	W. S. Ray
FIRST LIEUTENANT	T. W. Lenoir
SECOND LIEUTENANT	T. W. Smith
SECOND LIEUTENANT	T. F. Thorne
DRUM MAJOR	P. W. Coleman
SERGEANT	T. A. Bonner
SEGEANT	B. A. Morgan
SERGEANT	J. R. Heller
SERGEANT-BUGLER	J. T. Stevens

FIRST BATTALION

Major ....M. R. Warner
First Lieutenant ....R. O. Fortenberry, Adjutant
Battalion Sergeant Major ....H. R. Woodside

Co. A	Co. B	Co. C	Co. D

CAPTAINS

Speer, G. M.	Dominick, H. B.	Hall, E. H.	Fitzgerald, A. B.

FIRST LIEUTENANTS

Dean, F. F.	Stribling, R. S.	Anderson, E. K.	Roberts, O. A.

SECOND LIEUTENANTS

Bradley, N. M.	McClimon, M. L.	Anderson, W. T.	Burriss, A.
Ferguson, J. L.	Plowden, E. D.	Aull, J. C.	Burriss, W. F.
Howard, H. H.	Ross, J. E.	Brissie, M. B.	Kirkley, C. L.
Jones, B. K.	Shirley, L. R.	Davis, T. W.	Rittenberg, M. B.
Jones, J. F.	Talbert, J. H.	Griffin, W. F.	Sams, J. H.
Sligh, W. D.	Wilson, H. F.	Haynesworth, J. R.	Sartor, C. C.
		Martin, L. I.	Smith, W. R.
		Smith, A. L.	
		Verner, J. V.	

FIRST SERGEANTS

Cobb, C. N.	Smith, E. L.	Bailes, W. B.	Wellings, C. E.

SERGEANTS

Craven, W. H.	Clarke, T. H.	Coleman, H. V.	Ayers, D. C.
Herbert, D. O.	Colbert, F. H.	Haynesworth, C. R.	Bunch, R. L.
Sanders, E.	Kibler, J. W.	Sanftleben, D. A.	Cobb, W. H.
Seago, J. A.	Patterson, S. N.	Johnson, C. S.	Smith, R. H.
		Hilden, C. N.	

CORPORALS

Cureton, R. H.	Hendrix, S. H.	Brown, H. A.	Bryan, W. W.
Duvernet, W. R.	Jackson, T. G.	Dillard, W. P.	Hagood, J. F.
Hawkins, C. E.	Lemon, J. M.	Felder, J. C.	Howell, F. E.
Leitzsey, F. B.	McKeown, S. M.	James, S. H.	Hoyle, C.
Salley, E. M.		McCormac, E. L.	McCarley, C. R.
Verdery, C. B.			Roy, W. R.

SECOND BATTALION

Major .... T. L. Vaughan
First Lieutenant .... M. R. Leach, Adjutant
Battalion .... G. W. Cox

CAPTAINS

Co. E	Co. F	Co. G	Co. H
Wade, W. M.	Wofford, G. C.	Walker, H. P.	Wood, T. C.

FIRST LIEUTENANTS

Co. E	Co. F	Co. G	Co. H
Doar, L. H.	Hendricks, L. A.	Ellison, M. C.	Jefferies, T. L.

SECOND LIEUTENANTS

Co. E	Co. F	Co. G	Co. H
Lewis, J. G. 2nd	Alford, E. R.	Fuller, R. C.	Brown, B. S.
Murphy, T. J.	Byrd, D. A.	Jefferies, E. E.	Brown, J. J.
Pruitt, B. A.	Cartwright, A. K.	Smith, W. B.	Fayssoux, F. S.
Pugh, R. W.	Davenport, O. F.	Strother, F. V.	Hair, D. H.
Sawyer, G. W.	Griffin, J. K.	Young, L. R.	Stevenson, T. C.
Sheppard, J. L.	Hagan, C. M.		White, J. A.
Wiggins, J. E.	Mathews, S. C.		Wilson, J. W.

FIRST SERGEANTS

Co. E	Co. F	Co. G	Co. H
Mullins, H. D.	Faires, C. D.	Covin, W. F.	Buck, F. E.

SERGEANTS

Co. E	Co. F	Co. G	Co. H
Bauer, J. W.	Henderson, H. J.	Darby, J. E.	Friar, E. M.
Calvert, J. P.	Henry, S. W.	Haas, W. V.	Price, G. E.
Moore, P. W.	Holmes, J. S.	Huffman, W. C.	McIntosh, C. H.
Outen, D. L.	Keel, J. H.	Roark, D.	Traxler, H. C.
	Shealy, N. P.		
	Stoney, P. D.		

CORPORALS

Co. E	Co. F	Co. G	Co. H
Green, G. H.	Elliott, W. R.	Dorsett, R. R.	Coleman, H. C.
Jones, W. L.	Townsend, B. D.	Hope, R. H.	Heller, W. F.
Reid, T. B.	Thackston, A. J.	Howle, J. P.	Hunt. F. M.
Thomas, D. L.	Williamson, J. W.	Long, E. M.	Lawton, B. M.
Tison, P. H.	Wilson, C. J	Palmer, E. D.	O'Bryan, E. C.
White, W. A.		Westbury, J. E.	Paulling, J. R.
		Wray, J. Q.	Wells, S. F.

THIRD BATTALION

Major .... C. C. Garrison
First Lieutenant .... T. E. P. Woodward, Adjutant
Battalion Sergeant Major .... C. A. Robinson

Co. I	Co. K	Co. L	Co. M
	CAPTAINS		
Griffin, R. L.	Cappleman, G. J. S.	Spearman, W. W.	Oliver, M. B.
	FIRST LIEUTENANTS		
Faris, T. M.	Bee, S. S.	Dotterer, E. G.	Copeland, E. W.
	SECOND LIEUTENANTS		
Bass, F. J.	Boynton, C. W.	Cook, W. C.	Cathcart, A. B.
Glenn, H. Y.	Cook, J. M.	Easterby, A. H.	Evans, M. A.
Hiller, R. E.	Ezell, B. D.	McGrew, C. J.	Gaston, J. P.
Reid, J. R.	Floyd, A. R.	Mason, W. A.	Killian, J. M.
Reid, W. J.	Harvey, O. J.	Singley, H. S.	Pearman, S. N.
Shoolbred, A.	Hollingsworth, P. H.	Sojourner, J. H.	Shands, R. G.
	Knight, H. D.	Stuckey, C. C.	
	Lewis, J. G. 1st		
	FIRST SERGEANTS		
King, C. B.	Zeigler, R. L.	Pope, T. H.	Hodges, B. H.
	SERGEANTS		
Lewis, J. M.	Blair, J. W.	Cannon, E. A.	Blakeney, L. R.
Lewis, W. M.	Evans, F. A.	Croskeys, H. G.	Harmon, S. E.
	McLeod, C. E.	Hutto, D. F.	Murr, B. L.
		Sease, R. E.	Smith, F. V.
			Stello L. T.
	CORPORALS		
Alexander, E. R.	Brunson, F. A.	Albright, W. V.	Bowles, H. J.
Bailey, T. L. W.	Byrd, H. L.	Jones, P. C. *	Causley, J. E.
Boseman, T. R.	Evans, J. K.	Pepper, W. C.	Day, C. B.
Burgess, J. A.	Boyd, J. A.	Smyth, J. A.	Kirkland, C. R.
Hines, E. A.	Price, L. C.	Stringfellow, W. K.	Phifer, M. A.
Stevenson, N. W.	Roche, A. O.		Quinn, J. P.
	Shands, W. A.		Sanders, J. H.

MACHINE GUN COMPANY

Captain .... J. H. Alexander *
First Lieutenant .... J. R. Shannon
Second Lieutenant .... D. F. Livingston
First Sergeant .... T. C. Blount
Sergeant .... R. L. Lee
Sergeant .... R. H. Tibbs
Corporal .... W. W. Bankhead
Corporal .... J. E. Cudd
Corporal .... C. A. McGill

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* Died Dec. 25, 1923. Succeeded by Cadet L. A. Hendricks.

REGISTER OF STUDENTS

Abbreviations: A-Agriculture unclassified; the numerals I, II, etc. following the letter A, indicates the majors listed on pages 52, 53; AE-Architecture; C-Chemistry; ChE-Chemical Engineering; CE-Civil Engineering; E-Engineering unclassified; EE-Electrical Engineering; ME-Mechanical Engineering; T-Textile Engineering; FB-Federal Board student in regular classes.

s Indicates scholarship student. County and city are the same if street only is given.

DEGREES CONFERRED 1923

BACHELOR OF SCIENCE

s Indicates scholarship student. County and city are the same if street only is given.

Name and Course	County	Residence
Allan, A. N. (ME)	Dorchester	Summerville
s Arnold, L. W. (AV)	Pickens	R. 1, Central
Ballenger, W. M. (EE)	Greenville	Greer
Ballentine, W. L. (CE)	Greenville	216 Rutherford St.
Bankhead, J. M. (C)	Chester	Lowryville
Banks, R. W. (AIV)	Calhoun	St. Matthews
Benton, L. L. (AI)	Florence	R. 3, Box 167, Timmonsville
Betsill, J. L. (Ch.E)	Union	Union
Bigby, L. S. (ME)	Anderson	Williamston
Boozer, L. (EE)	Newberry	Prosperity
s Bowers, H. A. (AVII)	Hampton	Hampton
Bryan, G. T. (CE)	Greenville	768 N. Main St.
Cate, C. J. (A)		North Wilkesboro, N. C.
Cauthen, H. W. (EE)	Calhoun	Ft. Motte
Chaney, W. B. (F. B.) (EE)	Union	R. 1, Sedalia
Cheatham, J. C. (ME)	Abbeville	Abbeville
Clapp, W. J. (EE)	Laurens	Clinton
Coarsey, R. W. (AIV)	Oconee	Clemson College
Coleman, J. F. (EE)	Abbeville	19 Greenville St.
Condor, H. W. (AIV)	Darlington	R. 4, Darlington
Crenshaw, J. C. (ME)	Anderson	Pelzer
Crosland, J. E. (T)	Marlboro	Bennettsville
Cunningham, J. L. (AE)	Greenville	Greer
Davis, C. R. (T)	Oconee	Fair Play
Davis, E. P. (ME)	Greenville	205 River St.
Davis, I. E. (T)	Williamsburg	Salters Depot
Davis, R. (AII)	Charleston	R. 1, Martins Point
Day, E. S. (EE)	Anderson	Pendleton
s Dorman, J. K. (AV)	Horry	Conway
Driggers, B. F. (AVI)	Marion	Sellers
Duckworth, B. F. (EE)	Anderson	332 River St.
Dukes, W. A. (EE)	Orangeburg	Branchville
Dunham, F. E. (ME)		Stuart, Fla.
Dunlap, J. M. (AIV)	Anderson	Honea Path
Dyches, L. B. (EE)	Barnwell	Blackville
Ellison, C. H. (CE)	Oconee	Seneca

Name and Course	**County**	**Residence**
Emanuel, E. H. (AVII)	Sumter	Borden
Erskine, J. H. (EE)	Anderson	924 Power St.
Erwin, R. M. (T)	York	Fort Mill
s Fletcher, L. A. (AVII)	Marlboro	R. 2, Bennettsville
Foster, H. M. (AVII)	Spartanburg	Roebuck
Fudge, B. R. (AI)	York	R. 2, Rock Hill
Gambrell, F. L. (AVI)	Anderson	R. 3 Pendleton
s Garvin, P. M. (AVII)	Anderson	Pendleton
Gooding, P. H. (AII)	Hampton	R. 1, Hampton
Gray, W. H. (T)	Spartanburg	Woodruff
s Grier, W. H. (T)	York	Fort Mill
Grice, G. D. (Gen. Sci.)	Charleston	81 Ashley Ave
Guy, B. B. (ME)	Richland	Drawer 189, Columbia
Hartley, R. L. (CE)	Lexington	Batesburg
s Harvey, S. A. (AIII)	Fairfield	R. 1, Woodward
Hendricks, T. G. (ME)	Spartanburg	R. 1, Duncan
Hinson, H. L. (AII)	Florence	Scranton
s Hinson, I. L. (AII)	Florence	Scranton
Hodge, J. E. (T)	Clarendon	R. 1, Manning
s Hoffman, M. B. (AVII)	Richland	Blythewood
s Horton, L. F. (AV)	York	R. 1, Sharon
Howell, R. E. (Ch.E)	Union	Buffalo
Hunter, H. A. (AI)	Laurens	Clinton
s Hunter, J. H. (AI)	Newberry	R. 2, Prosperity
Hunter, S. C. (ME)	Oconee	R. 1, Westminister
Inman, A. K. (AI)	Cherokee	R. 1, Wilkinsville
Jones, D. B. (EE)	Georgetown	Georgetown
s Jones, M. L. (AVII)	Fairfield	Longtown
Klenke, J. (EE)	Charleston	45 Columbus St.
Knight, A. J. (AV)	Laurens	R. 2, Ware Shoals
Koopmann, J. J. (EE)	Orangeburg	Eutawville
LaBoone, F. P. (CE)	Anderson	R. 4, Anderson
LeGette, M. A. (ME)	Dillon	Latta
s Linder, E. O. (T)	Charleston	Adams Run
Littlejohn, B. C. (EE)	Union	Jonesville
s McGowan, W. D. (AV)	Calhoun	Cameron
McHugh, J. B. (Ch.E)	Pickens	Clemson College
McMahan, J. (CE)	Oconee	Richland
McMeekin, S. C. (ME)	Fairfield	Jenkinsville
McMeekin, F. R. (EE)	Fairfield	Monticello
Marshall, D. H. (T)	Greenville	R. 3, Greenville
s Martin, F. G. (AIV)	Greenwood	Ninety Six
Martin, M. V. (T)		Paris, France
Merck, W. L. (AIV)	Pickens	Calhoun
Mikell, S. H. (ME)	Charleston	Edisto Island
Miley, J. N. (AII)	Orangeburg	Branchville
Mills, W. H. (CE)	Oconee	Clemson College
Muthiah, A. D. (T)		Koilpati, India
Nichols, J. L. (AVII)	York	R. 4, Rock Hill
O'Bryan, M. B. (AV)	Williamsburg	Heinmann
Odom, W. H. (T)	Chesterfield	Chesterfield
Pate, C. P. (AIV) (F. B)	Darlington	R. 1, Lamar
Peeples, P. (EE)	Beaufort	Bluffton
Pepper, J. O. (AII)	Anderson	R. 5, Easley
Plexico, P. G. (AIV)	York	Rock Hill
Rasor, A. B. (EE)	Greenwood	R. 1, Donalds

Name and Course	County	Residence
Reese, M. R. (ME)	Greenville	R. 3, Greer
Rice, S. C. (EE)	Union	Union
s Richards, J. P. (I)	Kershaw	Liberty Hill
Ricker, E. C. (ME)	Beaufort	Beaufort
s Roberts, W. J. (AIV)	Greenwood	Ninety Six
Robertson, B. F. (AVII)	Pickens	Clemson College
Russell, B. A. (AI)	Anderson	Autun
Ryan, F. R. (AV)	Sumter	Wedgefield
Sanders, C. W. (AIV)	Sumter	Hagood
Savage, E. B. (EE)	Orangeburg	Eutawville
Shands, E. H. (ME)	Spartanburg	Campobello
Shealy, A. N. (EE)	Aiken	Perry
Simmons, K. B. (AVII)	Orangeburg	Rowesville
Smith, J. P. (CE)	Charleston	24 President St.
Smith, T. S. (AI)	Orangeburg	Springfield
Smyth, E. A. (ME)		R. 1, Flat Rock, N. C.
Snead, C. B. (T)	Greenwood	Greenwood
Steele, H. (ME)	Williamsburg	Kingstree
Stevenson, C. A. (T)	Charleston	45 E. Bay St.
s Stevenson, R. A. (AVI)	Chester	R. 1, Richburg
Tate, H. F. (AI)		Union Mill, N. C.
Taylor, F. W. (AV)	Greenville	R. 3, Fountain Inn
Thurmond, J. S. (AVII)	Edgefield	Edgefield
Timmons, E. D. (Ch.E)	Lancaster	Heath Springs
Timmons, L. C. (AE)	Lancaster	Heath Springs
Vincent, C. E. (T)	Orangeburg	Orangeburg
Vogel, T. R. (ME)	1355 Parkwood Place N. W. Washington, D.C.	
Wade, G. L. (AIII)	Chester	Chester
Webb, J. H. (EE)	Anderson	1021 Market St
Weeks, J. L. (EE)	Orangeburg	52 Glover St.
Werts, R. B. (ME)	Newberry	R. 3, Newberry
Wigfall, C. Y. (A)	York	Rock Hill
Wiggins, E. C. (CE)	Hampton	Garnett
Wigington, J. T. (T)	Anderson	217 Bleckley St
Williams, E. B. (EE)	Lancaster	Kershaw
Williams, J. S. (CE)	103 East Clifton Terrace N. W. Washington	
Willis, M. A. (AI)	Barnwell	Williston
Wise, P. N. (AIV)	Saluda	R. 2, Batesburg
s Woodle, H. A. (AV)	Greenwood	Greenwood
Wray, A. F. (EE)	York	York
Yeomans, L. W. (AIV)	Allendale	Fairfax
s Young, C. T. (AIII)	Greenwood	125 Court St.
Zeigler, F. (ME)	Bamberg	Denmark

SENIOR CLASS

s Indicates scholarship student. County and city are the same if street only is given.

Name and Course	County	Residence
Alexander, J. H. (CE)	Oconee	Walhalla
Alford, E. R. (AII)	Dillon	R. 1, Latta
Anderson, E. K. (EE)		Auburndale Fla.
Anderson, W. T. (CE)	Oconee	Seneca
s Aull, J. C. (AIII)	Newberry	Pomaria
Bass, F. J. (CE)	Sumter	Mayesville

Name and Course	County	Residence
Bee, S. S. (AIV))	Charleston	R. 4, Charleston
Bodiford, H. O. (F.B.) (AE)	Barnwell	R. 1, Blackville
Boynton, C. W. (EE)	Colleton	R. 1, White Hall
Bradley, N. M. (T)	Sumter	Sumter
Brissie, M. B. (AV)	Greenwood	Hodges
Brown, B. S. (AVI)	Richland	Blythewood
Brown, J. J. (T)	Cherokee	Gaffney
Burriss, W. F. (T)	Anderson	R. 8, Anderson
Burris, A. (EE)	Anderson	R. 8, Anderson
Button, C. C. (AE)	Spartanburg	R. 2, Inman
Byrd, D. A. (AVII)	Aiken	Graniteville
Cappelmann, G. J. S. (AI)	Charleston	200 Rutledge Ave.
Cartwright, A. K. (EE)	Marion	Marion
Cathcart, A. B. (AIV)	Farifield	Winnsboro
Chambers, J. A. (ME)	Union	Union
Cook, J. M. (T)	York,	Fort Mill
Cook, W. C. (AIV)	Lancaster	Kershaw
[illegible] E. W. (AII)	Laurens	Laurens
Davenport, O. F. (T)	Anderson	Belton
Davis, T. W. (AII)	Laurens	R. 3, Clinton
Dean, F. F. (EE)	Anderson	133 Prevost St.
Dear, L. H. (AII)	Georgetown	R. 1, Georgetown
Dominick, H. B. (AE)	Richland	920 Maple St. Columbia
Dotterer, E. G. (CE)	Charleston	123 Ashley Ave.
Easterby, A. H. (AII)	Laurens	Laurens
Ellison, M. C. (Ch.E)	Pickens	Easley
Evans, M. A. (CE)	Florence	R. 1, Pamplico
Ezell, B. D. (AVII)	Spartanburg	R. 1, Cherokee
Fadely, S. H. (F.B) (AI)	Point Pleasant	West Virginia
Faris, T. M. (AVII)	York	R. 1, Fort Mill
Fayssoux, F. S. (T)	Greenville	106 Pine St.
Ferguson, J. L. (T)	Charleston	135 Ashley Ave.
Fitzgerald, A. B. (CE)	Spartanburg	163 Pine St.
Floyd, A. R. (ME)	Aiken	R. 2, Warrenville
Fortenberry, R. O. (ME)	Cherokee	Gaffney
Fuller, R. C. ME)	Spartanburg	Pacolet Mill
Garrett, C. C. (AE)	Laurens	Laurens
Garrison, C. C. (AI)	York	R. 4, Fort Mill
Gaston, J. P. (AIV)	Chester	Rodman
Glenn, H. Y. (CE)	Fairfield	Wallaceville
Goar, W. E. (AVII)	Saluda	R. 6, Leesvillle
Griffin, G. H. (F.B.) (AVII)	Berkeley	Jamestown
Griffin, J. K. (T)	Anderson	Belton
Griffin, R. L. (C)	Anderson	508 Richland Ave.
Griffin, W. F. (EE)	Laurens	Cross Hill
Hagan, C. M. (EE)	Abbeville	Due West
Hair, D. H. (AE)	Barnwell	Blackville
Hall, E. H. (AII)	Chester	Great Falls
Hamilton, S. S. (CE)	Dillon	Dillon
Harvey, O. J. (AI)	Berkeley	R. 2, Summerville
Haynsworth, J. R. (Ch.E)	Sumter	Sumter
Hendricks, L. A. (CE)	Pickens	R. 1, Easley
Hiller, R. E. (CE)	Lexington	Chapin
Hobson, P. H. (F.B.) (AV)	Anderson	Sandy Springs

Name and Course	County	Residence
Hollingsworth, P. H. (T)	Union	Union
Howard, H. H. (EE)	Aiken	Graniteville
Jeffries, T. L. (AI)	Cherokee	R. 4, Gaffney
Jones, B. K. (AE)	Pickens	R. 1, Easley
Jones, J. F. (AI)	Anderson	Starr
Julian, C. T. (F.B.) (CE)	Greenwood	Greenwood
Kirkley, C. L. (EE)	Charleston	McClellanville
Knight, H. D. (ME)	Chesterfield	Angelus
Killian, J. M. (CE)	Richland	2300 Richland St., Columbia
Leach, M. R. (E)	Greenville	108 Means St.
Lenoir, T. W. (CE)	Kershaw	Camden
Lewis, J. G. (AI)	Horry	Aynor
Lewis, J. G. 2nd. (Gen. Sci)	Anderson	Williamston
Livingston, D. F. (EE)	Richland	916 Richland St. Columbia
McClimon, M. L. (ME)	Spartanburg	R. 5, Greer
McCrary, A. L. (AI)	Greenville	305 Bates St.
McGrew, C. J. (ME)	Sumter	Sumter
Martin, L. I. (CE)	Oconee	R. 2, Westminister
Martin, R. S. (AIV)	Oconee	Clemson College
Mason, W. A. (AV)	Hampton	Estill
Mathews, S. C. (AII)	Florence	Scranton
Moore, W. H. (ME)	Abbeville	Abbeville
Murphy, T. J. (AIV)	Anderson	R. 1, Piedmont
Oliver, M. B. (CE)	Williamsburg	Greelyville
Owens, J. B. (AVII)	Marion	Marion
Parker, E. G. (AE)		Shelby, N. C.
Pearman, S. N. (CE)	Anderson	Starr
Pickens, R. W. (F.B.) (EE)	Pickens	Easley
Plowden, E. D. (AV)	Clarendon	Jordan
Pruitt, B. A. (ME)	Anderson	320 W. Franklin
Pugh, R. W. (ME)	Newberry	Prosperity
Ray, W. S. (CE)	Barnwell	R. 1, Blackville
Reid, J. R. (AI)	Chester	R. 2, Richburg
Reid, W. J. (AVI)	Chester	R. 2, Richburg
Rhem, C. F. (ME)	Williamsburg	Rhems
Rittenberg, M. B. (ME)	Charleston	493 Huger St.
Roberts, O. A. (EE)		Walter, Okla
Rodgers, S. A. (AI)	Greenwood	R. 1, Callison
s Ross, J. E. (AIV)	Darlington	R. 1, Society Hill
Sams, J. H. (EE)	Richland	1401 Laurel St. Columbia
Sartor, C. C. (EE)	Union	R. 3, Union
Sawyer, G. W. (AV)	Aiken	R. 1, Aiken
s Shands, R. G. (AI)	Florence	Ebenezer
Shannon, J. R. (ME)	Chester	R. 1, Blackstock
Sheppard, J. L. (EE)	McCormick	R. 2, McCormick
Shirley, L. R. (T)	Greenwood	R. 3, Greenwood
s Shiver, J. C. (AVI)	Oconee	Clemson College
Shoolbred, A. (CE)	Richland	1320 Senate St., Columbia
Singley, H. S. (AE)	Newberry	R. 6, Prosperity
Sligh, W. D. (EE)		Norfolk, Va.
Smith, A. L. (T)	Marlboro	R. 1, Bennettsville
Smith, T. W. (EE)	Pickens	Pickens
Smith, W. B. (ME)	Newberry	Kinards
Smith, W. R. (EE)	Union	R. 2, Union

Name and Course	County	Residence
Sojourner, J. H. (CE)	Bamberg	Denmark
Spearman, W. W. (T)	Newberry	Newberry
Speer, G. M. (EE)	Anderson	318 Calhoun St.
s Stevenson, T. C. (T)	Chester	R. 1, Richburg
Stribling, R. S. (T)	Greenwood	Ware Shoals
Strother, F. V. (EE)	Oconee	Walhalla
Stuckey, C. C. (AI)	Darlington	R. 2, McBee
Talbert, J. B. (AII)	McCormick,	R. 1, McCormick
Thorne, T. F. (EE)	Spartanburg	Landrum
s Tolleson, L. C. (T)	Cherokee	Gaffney
Tsukiyamia, T. (T)		Asagoin, Japan
Vaughan, T. L. (ME)	Spartanburg	Cowpens
Verner, J. V. (ME)	Oconee	Richland
Wade, W. M. (CE)	Chester	R. 2, Lowryville
Walker, H. P. (T)	Pickens	Easley
Warner, M. R. (AI)	Greenwood	R. 2, Greenwood
Wertz, J. B. (AE)	Pickens	Clemson College
White, J. A. T)	Chester	R. 1, Chester
Wiggins, J. E. (CE)	Hampton	Garnett
Wilson, H. F. (AV)	Orangeburg	R. 1, Bowman
Wilson, J. W. 2nd. (AVI)		Villa Rica, Ga.
Wofford, G. C. (AVII)	Laurens	Laurens
Wood, T. C. (AVII)	312 A St., N. E.	Washington D. C.
Woodward, T. E. P. (CE)	Aiken	R. 1, Aiken
Wright, L. C. (AE)	Marlboro	R. 1, Clio
Young, L. R. (AE)	York	Rock Hill

JUNIOR CLASS

s Indicates scholarship student. County and city are the same if street only is given.

Name and Course	County	Residence
s Allen, A. C. (T)	Dillon	Dillon
Allen, C. S. (E)	Greenville	226 Williams St.
Asbill, C. M. (E)	Richland	1523 Hampton St. Columbia
Ayers, D. C. (AE)	Orangeburg	7 Hampton St.
Babb, Jack (E)	Anderson	Pelzer
s Bagwell, J. C. (A)	Anderson	Honea Path
Bailes, W. B. (CE)	Lancaster	R. 2, Fort Mill
Barrs, T. A. (F.B.) (A)	Bamberg	R. 2, Branchville
Batson, J. P. (T)	Greenville	230 David St
Bauer, J. W. (CE)	Richland	2610 Blossom St., Columbia
Bell, S. L. (E)	Chester	Chester
Blair, J. W. (CE)	Fairfield	Blair
Blakeney, L. B. (E)	Lancaster	Lancaster
Blakeney, L. R. (T)	Chesterfield	Pageland
Blount, T. C. (E)	Charleston	331 President St,
Bonner, T. A. (E)	Spartanburg	Trough
Booker, L. R. (T)		205 Sycamore St. Charlotte N. C.
Buck, F. B. (CE)	Sumter	221 W. Calhoun S.
Bunch, R. L. (E)	Charleston	6 1-2 George St.
Calvert, J. P. (E)	Union	Jonesville
Cannon, E. A. (CE)	Richland	Blythewood
Carter, D. E. (T)	Laurens	Clinton

Name and Course	County	Residence
Cartee, E. F. (T)	Pickens	Liberty
Cary, F. L. (E)	Oconee	Seneca
s Causey, L. G. (A)		Tabor, N. C.
Chandler, J. W. (E)	Sumter	516 W. Liberty St.
Chappell, I. W. (E)	Fairfield	Jenkinsville
s Clark, D. C. (T)	Union	E. Main St.
s Clarke, T. H. (A)	Kershaw	Camden
Cobb, C. N. (Gen. Sci.)	Pickens	Easley
Cobb, W. H. (A)	Richland	1912 Assembly St. Columbia
Colbert, F. H. (T)		907 D St. N. W., Ardmore, Okla.
Coleman, H. V. (CE)	Saluda	R. 1, Silver Street
Coleman, J. M. (CE)	Newberry	Silver Street
Coleman, P. W. (T)		1106 Quintard Ave., Anniston, Ala.
Collins, D. M. (F.B.) (AE)	Oconee	Clemson College
Corbin, J. F. (A) (F.B.)	Greenville	306 Hampton Ave.
Covin, W. F. (C)	McCormick	Willington
Cox, G. W. (E)	Spartanburg	R. 1, Greer
Craven, W. H. (A)	Marion	Eulonia
Croskeys, H. G. (E)	Greenville	Piedmont
Daniel, D. M. (A)	Williamsburg	Cooper
Darby, J. E. (E)	Chester	Lowryville
Darby, J. P. (CE)	Richland	1320 Senate St. Columbia
Dicks, R. L. (AE)		R. R. Lakeland, Fla.
Edens, G. C. (A) (F.B.)	Pickens	R. 4, Pickens
Ellis, E. W.. (E)	Richland	1015 Bryan St., Columbia
s Evans, F. A. (A)	Marion	Marion
Ezell, P. B. (A) (F.B.)	Spartanburg	Crosss Anchor
Faries, C. D. (CE)	York	R. 1, Rock Hill
Fletcher, E. G. (E)	Marlboro	McColl
s Flowers, H. B. (T)	Darlington	R. 2, Darlington
Freeman, W. C. (T) (F.B.)	Greenville	R. 6, Greenville
Friar, E. M. (E)	Sumter	441 W. Calhoun St.
Gibson, R. F. (AE) (F.B.)	Orangeburg	Norway
Gillespie, B. B. (E)	Oconee	R. 4, Seneca
s Goodale, T. E. (T)	Kershaw	1213 Lyttleton St. Camden
Gordon, W. C. (AE)	York	R. 1, Rock Hill
s Goree, I. M. (T)	Newberry	619 Wright St.
Graves, P. (E)	Abbeville	Abbeville
Haas, W. V. (E)	Union	40 Fant Ave
Hall, R. E. (E)	Cherokee	500 S. Johnson St. Gaffney
Hambright, W. A. (A)	Cherokee	R. 1, Kingstree
Harden, J. C. (E)	Chester	R. 4, Chester
Hargrove, F. W. (E)	Dillon	Dillon
Harmon, S. E. (T)	Richland	2719 Main St. Columbia
s Hart, T. J. (A)	Orangeburg	R. 2, Vance
Hawkins, G. E. (A)	Florence	Timmonsville
s Haynsworth, C. R. (T)	Sumter	29 E. Calhoun St.
Hayes, B. M. (T) (F.B.)	Anderson	Orr Station
Henderson, H. J. (A)	Greenville	R. 4, Greenville
Henry, S. W. (E)	Allendale,	Allendale
Herbert, D. O. (E)	Orangeburg	Orangeburg
s Herlong, E. S. (A)	Calhoun	R. 3, Box 1, St. Matthews
Hendrix, F. S. (E)	Aiken	Aiken
Hodges, B. H. (Ch.E)	Anderson	Starr
Holahan, R. F. (CE)	Greenville	R. 1, Marietta

	Name and Course	County	Residence
	Holmes, A. G. (E)	Oconee	Clemson College
	Holmes, J. S. (A)	Laurens	R. 1, Mountville
	Huffman, W. C. (A)	Newberry	R. 1, Little Mountain
	Hutto, D. F. (E)	Bamberg	Denmark
	Jackson, S. L. (A)	Anderson	Starr
	Jacobi, L. W. (E)	Greenville	204 Prentiss Ave.
	Jeffords, A. U. (E)	Darlington	Lamar
	Jennings, F. C. (E)	Fairfield	Winnsboro
	Johnson, C. S. (E)		Terra Haute, Ind.
s	Jones, G. L. (A)	Marion	R. 1, Mullins
	Keel, J. H. (A)	Allendale	Allendale
	Kehew, C. L. (Ch.E)		South Harpswell, Maine
	Kent, G. P. (CE)		75 Berkeley St., Bloomfield, N. J.
s	Kibler, J. W. (A)	Newberry	Pomaria
	King, C. B. (A)	Horry	R. 1, Myrtle Beach
	Kirby, C. E. (E)	Union	Union
s	Kirton, M. B. (AE)	Williamsburg	Cades
	Knight, T. M. (E)	Chesterfield	Cheraw
	Knotts, W. T. (T)	Orangeburg	R. 1, North
	Lambright, F. L. (CE)	Spartanburg	Landrum
	Lee, R. .L (T)	Spartanburg	Landrum
	Lewis, J. M. (A)	Darlington	R. 1, Darlington
	Lewis, W. M. (E)	Darlington	R. 1, Darlington
	Littejohn, C. M. (CE)	Anderson	Belton
	Long, C. A. (A)	Horry	R. 1, Conway
	Long, L. S. (A)	Newberry	R. 3, Prosperity
	Longley, J. M. (T)		405 Broad St., LaGrange, Ga.
	Lyons, J. J. (T)	Anderson	Anderson
	McCormac, E. A. (A)	Dillon	R. 1, Dillon
	McCormac, J. H. (A)	Dillon	R. 1, Dillon
	McIntosh, C. H. (CE)	Clarendon	R. 1, New Zion
	McLees, F. C. (A)	Anderson	R. 3, Townville
s	McLeod, N. A. (A)	Dillon	Bingham
s	McLeod, T. E. (A)	Dillon	Bingham
	McMillan, R. W. (E)	Marion	Centenary
s	McPhail, M. (A)	Oconee	R. 1, Townville
	Mace, K. M. (A)	Marion	Centenary
	Maner, J. K. (A)	Hampton	Garnett
	Matthews, J. D. (CE)	Florence	Coward
	Maxwell, R. E. (E)	Richland	1108 Gregg St., Columbia
	Melton, L. H. (CE)	Chester	Chester
	Miller, J. R. (A)	York	R. 6, York
	Moore, P. W. (E)	Florence	Florence
	Morgan, B. A. (T)	Greenville	215 Broadus Ave.
s	Morris, J. A. T)	Oconee	Newry
	Moseley, J. W. (E)	Orangeburg	15 Hampton St.
s	Mullins, H. D. (T)	Cherokee	R. 4, Gaffney
	Murr, B. L. (E)	Chester	Chester
	Norton, J. J. (T)	Oconee	Walhalla
	O'Cain, H. F. (CE)	Orangeburg	Orangeburg
s	Outen, D. L. (A)	Lancaster	R. 3, Kershaw
	Patterson, S. N. (E)	Anderson	Williamston
s	Phiter, G. E. (T)	Spartanburg	245 Marion Ave.
	Poe, E. J. (E) (F.B.)		Crabtree, N. C.
s	Pope, T. H. (T)	Greenville	802 Arlington Ave

Name	County	Residence
Prause, O. B. (E)	Charleston	204 Spring St.
Price, G. E. (E)	Bamberg	Bamberg
Pruitt, R. S. (E)	Anderson	Anderson
Reid, D. A. (E)	Charleston	127 Bull St.
Rhodes, C. F. (E)	Darlington	R. 1, Darlington
Roark, D. (CE)	Pickens	Pickens
Roark, R. B. (E)	Pickens	Pickens
Robinson, C. A. (T)	Fairfield	Winnsboro
Roche, T. G. (T)	Abbeville	Abbeville
Rodgers, H. W. (A)	Greenwood	R. 1, Callison
Rowland, J. R. (E)	Pickens	Central
Rush, J. F. (A) (F.B.)	Greenwood	R. 4, Greenwood
Sally, H. D. (E)	Aiken	Sally
Sanders, E. (A)	Beaufort	Okatie
s Sanders, K. B. (A)	Colleton	Walterboro
Sanftleben, D. A. (CE)		Brooklyn, N. Y.
Seago, J. A. (E)	Greenwood	215 Cambridge St.
Sease, E. C. (CE)	Newberry	Prosperity
Sease, R. E. (CE)	Newberry	Prosperity
s Shanklin, J. A. (A)	Greenville	R. 8, Greer
Sharp, J. M. (T)	York	Leslie
Shealy, N. P. (AE)	Newberry	Prosperity
Silcox, D. H. (E)	Charleston	Mt. Pleasant
Simpson, W. N. (C)	Chester	R. 2, Richburg
s Smith, D. E. (A)	Newberry	Kinards
s Smith, E. L. (T)	Anderson	1804 South Main St.
Smith, F. V. (Ch.E		904 Magnolia Ave. Charlotte, N. C.
s Smith, J. E. (T)	Berkeley	R. 1, Ridgeville
s Smith, M. M. (T)	Marlboro	Clio
Smith, R. H. (A)	Colleton	R. 1., Smoaks
Spencer, B. (AE)	Oconee	R. 1, Madison
Stello, L. T. (E)	Charleston	116 B. Spring St.
Stewart, E. C. (CE)	Anderson	Pelzer
Stewart, J. D. (E)	Florence	Florence
Stokes, K. E. (A)	Darlington	R. 2, Darlington
Stoney, P. D. (A)	Allendale	Allendale
Stribling, D. W. (A)	Oconee	R. 4, Westminister
Sutherland, J. L. (A)	Pickens	R. 4, Pickens
Tabor, W. P. (E)	Calhoun	Fort Motte
Talbert, E. H. (A)	Edgefield	Edgefield
s Tate, H. S. (T)	Abbeville	Abbeville
Taylor, T. J. (T)	Spartanburg	R. 4, Spartanburg
Tennant, A. B. (T)	Fairfield	Winnsboro
s Thrower, J. H. (T)	Chesterfield	Cheraw
Tibbs, R. H. (E)	Chester	Great Fallls
s Timmons, J. H. (A)	Clarendon	R. 3, Manning
Todd, J. N. (A)	Oconee	R. 2, Walhalla
s Traxler, H. C. (A)	Orangeburg	R. 3, Bowman
Traxler, W. C. (A)	Orangeburg	R. 3., Bowman
Trimier, L. G. (T)	Spartanburg	137 Oakwood Ave.
Turbyfill, W. G. (E)	Spartanburg	342 N. Church St.
Watkins, E. F. (A)	Spartanburg	115 Irvin Ave.
Welling, C. E. (E)	Charleston	714 King St.
Whitton, J. E. (E)	Florence	Florence
Wieters H. C. (E)	Charleston	119 Calhoun St.

Williams, W. B. (T)	Greenville	233 Bates St.
s Williams, J. G. (E)	Horry	R. 2, Tabor, N. C.
Wilson, G. C. (A)	Anderson	R. 6, Honea Path
Wise, G. C. (E)	Newberry	Prosperity
Woodside, H. R. (AE)	Greenville	Dunean Mills, Greenville
Wooten, W. H. (A)	Oconee	Fair Play
s Youmans, M. (A)	Allendale	Fairfax
Youngblood, J. M. (C)	York	Rock Hill
Zeigler, H. J. (CE)	Orangeburg	R. 6, Orangeburg
Zeigler, R. L. (C)	Bamberg	Denmark

SOPHOMORE CLASS

s Indicates scholarship student. County and city are the same if street only is given.

Name and Course	County	Residence
s Adams, L. C.	McCormick	Meriweather
Aiken, C. C. (T)	Anderson	313 W. Church St.
Albright, W. V. (AE)	Laurens	127 Academy St.
s Alexander, E. R. (A)	Lancaster	R. 2, Fort Mill
Anderson, O. S. (E)	Florence	R. 2, Timmonsville
Bailey, T. L. W. (A)	Laurens	Clinton
Bankhead, W. W. (E)	Chester	Lowryville
Barham, J. R. (A)	Marion	Marion
Barr, C. M. (CE)	Lexington	Leesville
Boseman, T. R. (E)	Darlington	R. 2, Darlington
Bouknight, L. S. Jr. (CE)	Saluda	R. 2, Batesburg
Boyd, J. A. (T)	Florence	Florence
Bowles, H. J. (E)	Greenwood	Greenwood
Bradley, D. W. (T)	Union	Union
Bradley, T. L. (Ch.E)	Richland	2825 Blossom St., Columbia
Brennecke, R. C. (A) F. B.	Orangeburg	Norway
Brown, H. A. (A)	Oconee	R. 3, Westminister
Brown, W. F. (E)	Anderson	R. 2, Anderson
Bryan, W. W. (E)	Oconee	Clemson College
Buie, J. A. E. (E)	Orangeburg	Branchville
s Burgess, J. A. (A)	Greenville	Greer
Burley, F. A. (E)	Fairfield	Monticello
Bush, F. W. (T)		Augusta, Ga.
Byrd, H. L. (E)	Orangeburg	North
Brockman, E. W. (A)	Richland	Columbia
Carpenter, E. W. (T)	Greenville	530 College St.
Carson, J. W. (E)	Spartanburg	283 S. Church St.
Caughman, J. B. (CE)	Richland	1013 Sumter St., Columbia
Causley, J. E. (E)	Chester	Chester
Chapman, W. E. (AE)	Anderson	R. 2, Pendleton
Cochran, G. B. (A)	Greenwood	R. 1, Donalds
s Coleman, H. C. (A)	Richland	R. 2, Hopkins
Corn, H. E. (E)	Anderson	701 W. End Avenue
Corry, J. S. (A)	Marlboro	Bennettsville
Cox, F. M. (E)	Anderson	Belton
Cox, H. A. (E)	Calhoun	St. Matthews
s Crain, M. C. (A)	Greenville	R. 1, Taylors
s Creighton, J. T. (A)	Aiken	North Augusta

	Name and Course	**County**	**Residence**
	Cudd, J. E. (AE)	Union	Jonesville
s	Culler, F. N. (A)	Lexington	Swansea
	Curdts, E. C. (T)	Greenville	513 Townes St.
	Cureton, R. H. (E)	Greenville	1420 Pendleton St.
	Darby, C. P. (CE)	Charleston	Mt. Pleasant
	Dauby, J. M. (T)	Anderson	Sandy Springs
	Davis, J. A. (E)	Sumter	515 W. Oakland Ave.
s	Davis, O. W. (A)	Marion	R. 2, Gresham
	Day, C. B. (E)	Edgefield	Trenton
	DeLoache, E. C. (E)	Kershaw	Camden
	DeLoache, L. D. (T)	Kershaw	Camden
	Dial, W. A. (E)	Laurens	Cross Hill
	Dillard, W. P. (A)	Greenville	R. 4, Greer
	Dorsett, R. R. (C)	York	York
	DuVernet, W. R. (E)	Greenville	R. 1, Greenville
	Easterling, K. (E)	Marlboro	Bennettsville
	Edwards, R. M. (A)	Calhoun	R. 1, Elloree
	Elliott, W. R. (T)	Fairfield	Winnsboro
	Ergle, D. R. (C)		Augusta, Ga.
	Evans, J. K. (E)	Beaufort	Beaufort
s	Farmer, W. A. (A)	Anderson	649 North Avenue
	Felder, J. C. (E)	Sumter	2 Edwards St.
	Fewell, J. A. (T)	York	Rock Hill
	Finklea, G. I. (E)	Florence	Hyman
	Fleming, J. M. (A)	Laurens	Lanford
	Foster, R. M. (A)	Spartanburg	White Stone
	Freeman, M. F. (E)	Oconee	Westminister
	Fulmer, C. E. (CE)	Orangeburg	Cope
	Gaffney, H. E. (E)	Cherokee	Gaffney
	Garrison, C. R. (A)	Oconee	Seneca....
	Garrison, N. A. (E)	Anderson	Sandy Springs
	Garvin, B. W. (E)	Aiken	Seivern
	Garvin, C. W. (CE)	Aiken	Seivern
	Gignilliat, G. W. (T)	Oconee	Seneca
	Gilmer, F. S. (T)	Anderson	Anderson
	Graham, F. A. (E)		Smithfield Pa
	Green, G. H. (E)	Greenville	R. 4, Greer
	Hagood, J. F. (CE)	Spartanburg	420 N. Church St.
	Hall, F. B. (E)	Anderson	Iva
	Hall, J. H. (AE)	Cherokee	Gaffney
	Hane, J. K. (A)	Calhoun	Fort Motte
	Hane, W. W. (A)	Calhoun	St. Matthews
	Harrelson, O. M. (E)	Horry	Lanes
	Hawkins, C. E. (C)	Anderson	Starr
	Heller, W. F. (E)	Anderson	Sandy Springs
	Hendee, M. H. (T)		Augusta, Ga.
	Hendrix, S. H. (T)	Lexington	Lexington
s	Henery, W. J. (A)	Union	R. 1, Sedalia
	Hester, J. B. (C)	Pickens	R. 2, Easley
	Hewer, J. C. (CE)	Pickens	Calhoun
	Hinson, E. M. (Ch.E.)	Kershaw	R. 1, Blaney
s	Hinson, H. S. (A)	Lee	Lynchburg
	Hope, R. H. (T)	York	R. 7, Rock Hill
	Horn, M. D. (T)		Tallassee, Ala.
	Howell, E. F. (E)	Orangeburg	69 Ellis Ave.
s	Howle, J. P. (A)	Darlington	R. 1, Hartsville

	Name	County	Residence
	Hunt, F. M. (E)	Oconee	Walhalla
	Jackson, R. A. (A)	Anderson	Starr
s	Jackson, T. G. (T)	Florence	Florence
	James, S. H. (AE)		Waycross, Ga.
	Jamison, T. R. (E)	Edgefield	Trenton
	Jeffers, W. (A)	Orangeburg	Holly Hill
	Jeffords, C. H. CE)	Darlington	Darlington
	Jones, E. L. (CE)	Kershaw	Liberty Hill
	Jones, P. C. (A)	Anderson	Starr
	Jones, W. L. (E)	Greenville	Greer
	Jordan, A. F. Ch.E)	Union	Union
s	Jordan, E. H. (A)	Darlington	R. 5, Timmonsville
	Jordan, R. C. (A)	Chester	R. 1, Bascomville
	Kearse, F. G. (E)	Hampton	Crockettville
s	Kennedy, E. C. (A)	Sumter	Sumter
	King, B. D. (E)	Lexington	R. 2, Swansea
	King, J. E. (AE)		Rocky Mount, N. C.
	Kinard, J. A. (A)	Colleton	R. 3, Ruffin
	Kinard, J. V. (T)		47 Gardener St., Atlanta, Ga.
	Kirkland, C. R. (E)	Kershaw	Camden
	Kirkland, R. R. (E)	Kershaw	Camden
s	Kizer, H. F. (A)	Dorchester	St. George
s	Klugh, J. B. (A)	Abbeville	Abbeville
	Lander, A. M. (E)	Anderson	Pelzer
	LaRoche, J. D. (E)	Charleston	Edisto Island
s	Law, J. M. (A)	Florence	Scranton
	Lawton, B. M. (E)	Hampton	Lena
	Lee, S. A. (E)	Orangeburg	Orangeburg
	Leiztsey, F. B. (Ch.E)	Richland	906 Columbia Avenue Columbia
s	Lemmon, J. M. (A)	Lee	Lynchburg
	Linton, W. T. (CE)		Greensboro, Ga.
	Long, E. M. (E)	York	Rock Hill
s	McAllister, L. C. (A)	Anderson	Pendleton
	McCarley, C. R. (T)	Oconee	R. 3, Seneca
	McClellan, G. W. (A)	Anderson	R. 4, Anderson
	McCormac, E. L. (T)	Dillon	R. 1, Dillon
s	McCracken, H. E. (A)	Richland	R. 1, Hopkins
	McCraw, F. Z. (T)	Cherokee	Gaffney
	McCraw, L. G. (A)	Cherokee	Gaffney
	McGee, E. T. (CE)	Anderson	Starr
	McGill, C. A. (E)	Anderson	202 Maxwell Avenue
	McKeown, S. M. (T)	Chester	Cornwell
	McKerley, J. B. (CE)	Barnwell	R. 2, Elko
	Marshall, J. C. (E)	Anderson	430 Marshall Avenue
	Martin, B. V. (E)	Oconee	Clemson College
	Mathews, D. T. (E)	Pickens	Pickens
	Mayfield, J. T. (E)	Bamberg	Denmark
	Mazyck, J. F. (CE)	Charleston	160 Calhoun St
	Nance, R. D. (C)	Laurens	Cross Hill
	O'Bryan, E. C. (CE	Williamsburg	Heineman
s	Padgett, A. B. (A)	Colleton	Smoaks
	Palmer, E. D. (E)	Pickens	Central
	Park, W. C. (T)		Augusta, Ga.
s	Parker, A. W. (A)	Sumter	Dalzell

	Name and Course	County	Residence
	Paulling, J. R. (A)	Calhoun	St. Matthews
	Pepper, W. C. (E)	Anderson	1003 W. Market
	Phipps, F. V. (E)	Richland	Epsworth Orphanage Columbia
	Porter, L. A. (T)	Orangeburg	Springfield
s	Powell, G. H. (A)	Chesterfield	Cheraw
s	Price, L. C. (E)	Bamberg	Bamberg
	Pruitt, A. (E)	Anderson	320 W. Franklin
	Pruitt, J. M. (T)	Anderson	R. 1, Anderson
	Quinn, J. P. (E)	Cherokee	R. 1, Gaffney
	Reid, T. B. (T)	Chester	Richburg
	Roche, A. O. (E)	Abbeville	Abbeville
	Rogers, C. H. (A)	Marion	R. 1, Mullins
	Roy, W. R. (Ch.E)	Richland	2205 Gadsden St., Columbia
	Salley, E. M. (E)		Saluda, N. C.
	Salley, L. J. (E)	Aiken	Salley
	Sanders, D. M. (A)	Sumter	Hagood
	Sanders, J. H. (T)	Chester	Chester
	Sanders, J. R. (E)	Chester	Chester
	Sanders, V. C. (E)	Newberry	Newberry
s	Shands, W. A. (A)	Florence	Ebenezer
	Simkins, L. H. (A)		R. 3, Augusta, Ga.
	Smith, B. M. (CE)	Anderson	Starr
	Smith, E. D. (CE)	Florence	Florence
	Smith, E. T. (E)	Anderson	318 White St.
s	Smith, G. A. (A)	Anderson	1204 N. Main
	Smith, J. R. (E)	Greenville	506 Perry Ave.
	Smith, R. E. (AE)	Cherokee	Blacksburg
s	Smyley, M. M. (T)	Colleton	R. 3, Ruffin
	Smyth, J. A. (A)		R. 1, Flat Rock, N. C.
	Steer, R. D. (A)	Laurens	Clinton
	Stevenson, N. W. (E)	Anderson	1128 S. Main
	Stewman, W. S. (E)	Lancaster	Lancaster
	Strickland, P. (A)	Anderson	Belton
	Stringfellow, W. K. (T)	Charleston	145 Rutledge Ave.
	Sudlow, W. H. (E)	Aiken	Aiken
	Swords, P. E. (A)	Anderson	R. 1, Central
	Taylor, W. H. (T)	Laurens	Laurens
	Thackston, A. J. (E)	Orangeburg	Orangeburg
	Thomas, J. H. (A)	Colleton	R. 3, Ruffin
s	Thomas, H. L. (A)	Sumter	Mayesville
	Thompson, J. M. (E)	Oconee	Westminister
	Thornton, G. (E)	Greenville	U. S. Vet. Hospital
	Tinsley, H. K. (A)	Greenwood	Hodges
s	Tison, P. H. (A)	Allendale	Allendale
	Todd, J. A. (E)	Anderson	R. 2, Starr
	Townsend, B. D. (AE)	Marlboro	Bennettsville
	Townsend, T. S. (A)	Charleston	R. 1, Martins Point
	Tozier, L. R. (AE)	Sumter	R. 5, Sumter
s	Trent, R. L. (A)	Spartanburg	Clifton
	Vand de Erve, J. M. (E)	Dorchester	Summerville
	Verdery, C. B. (T)	Greenville	307 E. Park Ave.
	Vice, E. E. (CE)	Union	Union
s	Walker, J. E. (T)	Barnwell	Blackville
s	Watson, J. R. (E)	Saluda	Batesburg
	Watson, S. J. (A)	Edgefield	Johnston
	Watson, T. C. (AE)	Lexington	Batesburg

Name and Course	County	Residence
Weeks, T. H. (E)	Orangeburg	Elloree
s Wells, S. F. (A)	Sumter	R. 5, Sumter
Werner, W. J. (E)	Pickens	Central
West, W. (CE)	Spartanburg	278 N. Church St.
Westbury, J. E. (E)	Georgetown	Georgetown
Whetsell, J. A. (A)	Orangeburg	R. 3, Parler
Whetsell, M. H. (A)	Orangeburg	R. 3, Bowman
Whilden, C. N. (E)	Sumter	117 Church St.
s White, W. A. (A)	Chester	Chester
s Wilbanks, B. H. (A)	Oconee	Clemson College
Wilkes, W. M. (A)	Marlboro	Clio
Williams, B. L. (A)	Greenwood	Gaines
Williamson, J. W. (A)	Dillon	Hamer
s Wilson, C. J. (A)	Clarendon	Manning
s Wilson, F. E. (A)	Jasper	Ridgeland
Wood, A. K. (A)	Laurens	R. 2, Ware Shoals
Wray, J. Q. (E)	York	York
Wright, J. B. (E)	Fairfield	Shelton
Wyman, H. V. (E)	Aiken	Aiken
Zagora, O. F. (E)		1305 Mint St. Charlotte, N. C.

FRESHMAN CLASS

s Indicates scholarship student. County and city are the same if street only is given.

Name and Course	County	Residence
Adams, J. W. (E)		Jemison, Ala.
Alexander, J. S. (E)	Greenville	108 Means St.
Alexander, S. R. (A)	Anderson	R. 2, Anderson
Allgood, L. L. (E)	Pickens	R. 1 Central
Allison, L. D. (E)	Greenville	130 Rutherford St.
Anderson, C. W. (E)		Guilford, N. C.
Anderson, E. C. (A)	Darlington	R. 2, Timmonsville
Anderson, J. S. (E)	Calhoun	St. Matthews
s Anderson, R. D. (A)	Marlboro	Clio
Askin, H. W. (E)	Florence	Timmonsville
Aull, J. L. (E)	Newberry	Pomaria
Austin, P. B. (E)	Greenville	412 Townes St.
Avent, J. K. (E)	Marlboro	Bennettsville
Bailes, J. M. (A)	Lancaster	R. 2, Fort Mill
Bailey, M. A. (E)	Greenwood	Greenwood
Bair, J. T. (E)	Charleston	1226 King St.
s Baker, J. H. (A)	Orangeburg	R. 3, Orangeburg
Baker, W. E. (A)	Lancaster	R. 2, Kershaw
s Baker, W. L. (A)	Chesterfield	R. 1, Jefferson
Baldwin, H. L. (E)	Orangeburg	Orangeburg
Ballenger, R. G. (E)	Spartanburg	Wellford
s Barrington, W. L. (A)	Marlboro	R. 2, Gibson, N. C.
Bates, P. G. (E)	Greenville	Marietta
Bauman, R. C. (E)	Greenville	105 Hampton Ave.
Beason, G. H. (E)	Spartanburg	Woodruff
Beatty, H. C. (E)	Greenville	604 Pettigru St.
Bennett, W. M. (A)	Colleton	Ashton
Berry, W. J. (E)	Spartanburg	Wellford

Bethea, T. J. (E)	Marlboro	McColl
Blackwell, T. J. (E)	Williamburg	R. 2, Salters Depot
Bobo, N. (E)	Spartanburg	Woodruff
Bonnette, G. W. (A)	Saluda	R. 2, Monetta
Booker, H. L. (E)	Spartanburg	Wellford
Bowie, C. H. (E)	Oconee	Seneca
Boyce, M. O. (E)	Laurens	Cross Hill
Brabham, H. K.	Bamberg	Bamberg
Brabham, L. C. (E)	Bamberg	Ehrhardt
Breeden, E. L. (A)	Marlboro	R. 4, Bennettsville
Breland, A. D. (A)	Colleton	Cottageville
Brice, R. W. (A)	Sumter	Wedgefield
Brock, J. L. (E)	Pickens	Central
Brodie, G. H. (E)	Aiken	R. 2, Sally.
Brown, C. A. (E)	Oconee	Westminster
Brown, T. L. (A)	Cherokee	Gaffney
Brown, T. P. (E)	York	Fort Mill
Brown, W. A. (A)	Sumter	414 Hampton Ave.
Brown, W. C. (A)	Anderson	Belton
Bruner, H. P. (A)	Sumter	339 W. Liberty St.
Bruner, W. C. (E)	Williamsburg	Lanes
Bryant, F. M. (E)	Marion	Marion
Bryant, W. D. (A)	Darlington	Dovesville
Buford, J. A. (E)	Laurens	Clinton
Buie, G. S. (E)	Chesterfield	Patrick
Burley, W. J. (A)	Fairfield	Monticello
Burnett, W. E. (E)	Spartanburg	Wellford
Calhoun, W. B. (A)	Allendale	Baldock
Callaham, F. D. (A)	Pickens	Liberty
Cannon, A. M. (E)	Laurens	R. 2, Mountville
Cannon, J. P. (E)	Anderson	R, 1, Honea Path
Carlisle, H. L. (A)	Abbeville	R. 1, Lownsville
Carter, T. H. (A)	Florernce	R. 3, Timmonsville
s Cash D. H. (A)	Spartanburg	Chesnee
Cason, F. E. (A)	Greenville	Fountain Inn
Cathcart, S. D. (A)	Fairfield	Winnsboro
Caughman, E. M. (A)	Lexington	Lexington
Causey, O. R. (A)	Horry	R. 2, Tabor, S. C.
Chapman, A. H. (E)	Greenville	R. 6, Greenville
Chapman, H. (E)	Pickens	Calhoun
Chapman, W. F. (A)	Anderson	R. 4, Belton
Cheek, T. H. (A)	Anderson	R. 3, Iva
Chreitzberg, C. H. (E)	Anderson	R. 1, Williamston
s Clark, L. (A)	Horry	R. 3, Gallivants Ferry
Clinton, T. F. (A)	Chester	R. 1, Edgemoor
Coan, J. H. (E)	Spartanburg	Wellford
Coleman, O. W. (E)	Newberry	Silverstreet
Cooper, J. R. (E)	Anderson	R. 4, Belton
Corbett, T. B. (E)	Colleton	Walterboro
Counts, R. H. (E)	Laurens	427 West Main
Cox, W. A. (E)	Greenville	470 W. Washington
Craig, W. L. (E)	Greenwood	Greenwood
Cromer, L. E. (A)	Oconee	Seneca
s Cromer, N. C. (A)	Anderson	Sandy Springs
Cross, J. B. (A)	Oconee	Westminster
s Crowson, J. K. (E)	Richland	Columbia

Name and Course	County	Residence
Croxton, E. M. (E)	Lancaster	Lancaster
Croxton, R. D. (A)	Kershaw	R. 1, Kershaw
Crum, (O. L. (E)	Orangeburg	Orangeburg
s Culler, R. B. (A)	Aiken	R. 1, Kitchings Mill
Cullum, F. E. (E)	Lexington	Batesburg
Cummings, R. L. (A)	Anderson	R. 1, Belton
Cunningham, D. W. (E)	Sumter	325 W. Hampton Ave.
Conningham, W. R. (E)	Lee	Bishopville
Daniel, W. C. (E)	Williamsburg	Cooper
Darden, J. B. (E)	Spartanburg	139 Dallas Place
Davis, F. L. (A)	Saluda	R. F. D., Ward
Davis, C. L. (E)		Hebardsville, Ga.
Dellinger, E. L. (E)	Lexington	Cayce
DeYoung, D. F. (E)	Anderson	Belton
Dixon, R. C. (E)	Sumter	30 S. Salem Ave.
Dobson, C. R. (E)	Lancaster	R. 4, Lancaster
Donaldson, J. H. (E)	Georgetown	Georgetown
s Dorn, T. E. (A)	Greenwood	R. 4, Greenwood
Dove, W. S. (E)	Darlington	Dovesville
Dowling, C. B. (E)	Lexington	Swansea
Drake, E. W. (A)	Anderson	Belton
Duggan, O. R. (E)	Pickens	Central
Dunbar, L. D. (E)	Spartanburg	205 Pine St.
DuPre, G. C. (E)	Richland	1820 Pendleton St. Columbia
Earle, J. E. (E)	Anderson	R. 2, Starr
Edwards, P. W. (E)	Lexington	Batesburg
Ellison, L. A. (A)	Pickens	Easley
Elms, H. S. (E)	Lancaster	R. 3, Fort Mill
Emerson, R. W. (A)	Greenwood	Hodges
Etheredge, T. J. (E)	Lexington	Batesburg
Faust, C. C. (E)	Bamberg	Denmark
Ferguson, T. D. (E)	Charleston	135 Ashley Ave.
Finch, M. C. (E)		Rocky Mount, N. C.
Finley, H. L. (A)	Pickens	Easley
Fishburne, F. J. (E)	Charleston	62 N. Alexander St.
Fowler, B. (E)		Stamford, Texas
Franklow, M. L. (E)	Lexington	Leesville
Freeman, J. C. (A)	Laurens	R. 1, Princeton
Funderburk, O. F. (E)	Chester	Great Falls
Gaines, O. A. (A)	Greenville	Greer
Gaillard, W. J. (E)	Anderson	Pelzer
Garnett, J. K. (A)	Hampton	R. 1, Garnett
Garrison, R. H. (A)	Anderson	Sandy Springs
Gibson, D. A. (E)	Union	Union
Gibson, J. T. (A)	York	R. 1, Fort Mill
Gillespie, S. L. (E)	Darlington	R. 3, Hartsville
Gilmore, H. S. (A)	Orangeburg	Holly Hill
s Goff, H. B. (A)	Saluda	R. 4, Leesville
Goodyear, C. P. (A)	Marion	R. 1, Nichols
Googe, W. J. (E)	Allendale	Fairfax
Gray, G. S. (A)	Spartanburg	Woodruff
Green, C. H. (E)	Sumter	210 Broad St.
Greene, J. W. (E)	Greenville	Duncan Mills
s Grice, H. S. (A)	Saluda	R. 2, Ward
Grumbles, W. F. (A)	Laurens	R. 1, Owings

Name and Course	**County**	**Residence**
Hamrick, F. G. (A) F. B.	Cherokee	R. 9, Gaffney
Hardee, H. M. (E)	Chester	Lowryville
Hardee, J. H. (E)	Chester	Lowryville
Hartzog, H. G. (E)	Greenwood	Greenwood
Harvin, O. D. (A)	Sumter	Pinewood
Haskell, A. C. (A)	Aiken	R. 4. Augusta, Ga.
Hayden, D. C. (A)	Orangeburg	R. 3. Orangeburg
Hayden, E. C. (A)	Orangeburg	Cope
Hayden, L. (E)	Orangeburg	R. 2, Orangeburg
Hayden, T. J. (E)	Orangeburg	Rowesville
Hayes, T. W. (A)	Dillon	Latta
Henderson, E. M. (E)	Richland	2120 Logan Terrace Columbia
Hendrix, T. J. (A)	Spartanburg	R. 1, Duncan
s Heriot, L. W. (E)	Clarendon	Manning
Herlong, J. R. (A)	Saluda	Ward
Herron, J. L. (A)	Anderson	Starr
Hicks, M. H. (E)	Darlington	Hartsville
Hinnant, J. L. (E)	Richland	R. 3, Blythewood
Hinson, L. O. (E)	Florence	Scranton
Hodges, H. M. (E)	Marlboro	Brownsville
Humphries, H. B. (E)	Union	Union
Hunter, C. (E)	Greenwood	R. 6, Greenwood
Hutchinson, J. (E)	Dorchester	Summerville
s Hutto, S. G. (A)	Bamberg	Denmark
Hyman, J. M. (A)	Florence	Pamplico
s James, J. H. (A)	Greenville	R. 4, Greer
Jeffcoat, W. A. (E)		Bluefield, W. Va.
Jeter, C. A. (E)	Union	R. 1, Carlisle
Johns, J. H. (A)	Oconee	R. 1, Westminster
Johnson, C. P. (E)	Aiken	Aiken
Johnson, I. L. (A)	Dillon	Latta
Jones, J. D. (E)	Colleton	R. 1, Ashton
Jones, O. F. (A)	Pickens	R. 1, Easley
s Jones, R. C. (E)	Bamberg	Bamberg
Jones, W. E. (E)	Kershaw	R. 2, Bethune
Jowers, H. C. (E)	Chesterfield	Angelus
Keenan, H. E. (E) F. B.	Aiken	Graniteville
Kershaw, J. (E)	Aiken	N. Augusta
Kinard, F. W. (A)	Lexington	Leesville
Kinard, H. H. (A)	Greenwood	Ninety-Six
King, J. A. (E)	Sumter	101 E. Hampton Ave.
s Kirby, K. M. (E)	Dorchester	St. George
Kirk, E. S. (E)	York	Rock Hill
Kitchen, T. W. (E)	Greenville	Greenville
Knight, J. D. (E)	Chesterfield	Angelus
Knotts, F. L. (E)	Orangeburg	R. 1, North
LaBruce, A. F. (E)	Georgetown	Georgetown
Langford, C. H. (A)	Richland	Blythewood
Langston, A. M. (A)	Florence	R. 3, Timmonsville
Lenhardt, B. F. (A)	Pickens	R. 1, Easley
Liles, S. E. (E)	Marlboro	McColl
Lineberger, C. H. (E)	Greenville	524 Hampton Ave.
Lingle, A. F. (E)	Lancaster	Lancaster
Little, T. R. (E)	Anderson	R. 2, Starr
Long, J. T. (E)	Pickens	R. 1, Central

	Name and Course	County	Residence
	Love, J. D. (E)	York	McConnellsville
	McCullough, S. H. (A)	Williamsburg	R. 1, Kingstree
	McCutcheon, J. C. (E)	Williamsburg	R. 1, Nesmith
	McDaniel, S. W. (A)	Beaufort	Beaufort
	McDaniel, W. C. (A)	Florence	R. 5, Timmonsville
	McFadden, J. L. (A)	Williamsburg	Cades
	McHugh, R. S. (A)	Oconee	Clemson College
	McLeod, C. E. (A)	Beaufort	Beaufort
	McMillian, F. W. (E)	Marion	Mullins
	McMillian, G. J. (E)		Wilmington, N. C.
	McTeer, J. R. (E)	Colleton	Walterboro
	MacArthur, W. J. (A)	Cherokee	Gaffney
	Major, J. D. (A)	Anderson	R. 2, Belton
	Mangum, W. S. (A)	Marlboro	R. 1, McColl
	Marshall, G. N. (E)	Sumter	R. 4, Sumter
	Marshall, R. M. (E)	Beaufort	Beaufort
s	Martin, L. K. (A)	Greenwood	R. 2, Ninty-Six
s	Martin, W. T. (A)	Spartanburg	Chesnee
s	Massey, L. B. (A)	Anderson	R. 2, Pendleton
	Maxwell, W. C. (A)		R. 1, Rydal, Ga.
	Mayer, M. O. (A)	Newberry	Pomaria
s	Metz, G. E. (A)	Charleston	515 Huger St.
s	Miley, P. (A)	Hampton	R. 1, Brunson
	Miller, L. R. (E)	Marlboro	Bennettsville
	Miller, P. H. (E)	Marlboro	Tatum
	Miller, O. L. (E)	York	Rock Hill
	Milling, J. A. (E)	Greenwood	Greenwood
	Mitcham, L. C. (A)		17 W. Anderson St. Savannah, Ga.
	Mitchell, R. H. (E)	Aiken	North Augusta
	Montgomery, S. M. (E)	Marion	Marion
	Moon, C. T. (A)	Oconee	Seneca
	Moon, P. E. (A)	Greenville	R. 3, Piedmont
	Moorer, T. B. (E)	Charleston	11 A. Warren St.
	Morrison, J. B. (A)	Charleston	McClellanville
	Neal, A. J. (A)	Lancaster	R. 1, Heath Springs
	Nettles, E. W. (A)	Sumter	Wedgefield
	Newman, C. C. (A)	Oconee	Clemson College
	Nickles, W. D. (E)	Anderson	Pelzer
	Nimitz, F. K. (E)	Charleston	66 Society St.
	O'Dell, W. R. (A)	Pickens	R. 3, Liberty
	Page, W. (A)	Horry	Aynor
s	Pardue, W. A. (E)	Edgefield	R. 3, Trenton
	Parker, W. E. (E)	McCormick	R. 1, Troy
	Parler, M. L. (A)	Sumter	Wedgefield
s	Parnell, C. L. (A)	Jasper	Gillisonville
	Pearson, T. P. (E)	Orangeburg	R. 2, Orangeburg
	Phillips, C. Y. (E)	Pickens	Norris
s	Pickelsimer, D. L. (E)	Anderson	Anderson
	Pinson, M. C. (E)	Laurens	Cross Hill
	Pruitt, J. A. (E)	Anderson	412 E. Orr St.
	Pruitt, W. H. (A)	Anderson	R. 8, Anderson
s	Rasor, H. L. (A)	Greenwood	R. 1, Donalds
s	Reed, L. B. (A)	Anderson	R. 7, Anderson
	Reed, P. B. (E)	Lancaster	Lancaster
	Reynolds, C. N. (E)	Marlboro	Bennettsville

	Name and Course	**County**	**Residence**
	Richardson, M. B. (E)	Anderson	R. 1, Pendleton
	Richard, E. R. (A)	Greenwood	Ware Shoals
	Rickborn, J. H. (A)	Dorchester	Reesville
	Robbins, L. L. (E)	Dorchester	St. George
	Robinson, S. O. (E)	York	York
	Rodgers, C. M. (A)	Anderson	R. 1, Pelzer
	Ropp, J. W. (E)	Laurens	Cross Hill
	Rosamond, J. E. (E)	Greenville	R. 5, Greenville
	Rose, A. (E)	Greenville	806 E. McBee Ave.
s	Ross, D. H. (E)	Florence	Florence
s	Rudloff, C. N. (A)	Berkeley	Pinopolis
	Russell, H. E. (E)	Pickens	Easley
	Salley C. T. (A)	Aiken	Sally
	Salley, K. F. (A)	Aiken	Sally
	Salter, F. S. (A)	Edgefield	Trenton
	Sams, R. O. (E)	Union	Jonesville
	Sanders, E. G. (E)	Barnwell	Blackville
	Sanders, M. H. (E)	Sumter	Hagood
	Sanders, M. K. (E)	Sumter	Hagood
	Scott, J, T, (E)	Union	Jonesville
	Seaborn, L. A. (E)	Oconee	Walhalla
	Sessions, J. C. (E)	Horry	Conway
	Sharp, G. W. (A)	York	Leslie
	Shelamer, H. D. (E)	Richland	1425 Hampton St. Columbia
	Sheriff, J. M. (E)	Orangeburg	Orangeburg
s	Shore, F. W. (A)	Spartanburg	Greer
	Shull, W. G. (E)	Greenville	238 West Stone Ave.
	Simmons, G. C. (E)	Greenville	12 Smyth Ave.
	Sisk, G. N. (A)	Oconee	Clemson College
	Smith, A. Z. (A)	Orangeburg	Bowman
s	Smith, C. (A)	York	R. 1, York
	Smith, C. T. (A)	Newberry	R. 1, Kinards
	Smith, J. E. (A)	Anderson	R. 2, Pendleton
	Smith, T. E. (E)	Orangeburg	Rowesville
s	Smoke, G. W. (E)	Calhoun	St. Matthews
	Smoot, J. T. (E)	Marlboro	McColl
	Sparks, R. H. (E)	Cherokee	Gaffney
s	Spencer, E. P. (A)		McFarlan, N. C.
	Steed, W. A. (E)	York	Rock Hill
	Stelling, R. N. (A)	Aiken	North Augusta
	Stepens, S. F. (A)	Dillon	R. 4. Dillon
	Stephenson, J. A. (A)	York	R. 2. Sharon
	Sterling, J. S. (A)	Chester	R. 1, Cornwell
	Stogner, J. R. (A)	Darlington	Hartsville
	Stokes, G. L. (A)	Anderson	Iva
	Stork, W. (A)	Richland	1716 Lower St., Columbia
	Stoutamire, H. L. (A)	Orangeburg	R. 3, Holly Hill
	Stribling, T. S. (E)	Oconee	Seneca
	Sturgis, H. V. (A)	York	R. 7, Rock Hill
	Sutherland, E. S. (E)	Pickens	R. 4, Pickens
	Sydenstricker, K. C. (E)		Rocky Mount, N. C.
s	Sykes, L. C. (E)	Orangeburg	Orangeburg
s	Talbert, J. H. (A)	McCormick	R. 1, McCormick
	Tarrant, W. E. (E)	Greenville	Piedmont
	Thomas, J. R. (E)	Orangeburg	R. 2, Cope

Name and Course	County	Residence
s Thomason, W. E. (A)	Spartanburg	Woodruff
Thomas, B. K. (E)	Spartanburg	Landrum
Thomason, D. P. (E)	Oconee	Seneca
Turpin, D. W. (E)	Spartanburg	Grarmling
Tyler, R. T. (A)	Orangeburg	R. 3, Orangeburg
Valentine, J. G. (A)	Orangeburg	R. 3, Cope
Vandiver, E. H. (E)	Pickens	Calhoun
Verdin, L. N. (E)	Greenville	R. 2, Greenville
Waldrop, J. D. (E)	Spartanburg	Campobello
Wallace, J. C. (A)	Anderson	R. 1, Pendleton
Ward, H. P. (E)	Georgetown	Georgetown
Warren, J. A. (E)	Sumter	126 N. Salem Ave.
s Weathersbee, A. A. (A)	Aiken	R. 1, Ellenton
Weeks, W. S. (E)	Aiken	R. 5, Aiken
s Weigle, C. C. (A)	Anderson	R. 1, Belton
Whetstone, G. B. (E)	Orangeburg	R. 1, North
White, A. H. (A)	Greenville	R. 2, Simpsonville
Williams, W. L. (E)	York	R. 4, Rock Hill
Williamson, J. W. (A)	Dillon	R. 1, Hamer
Wilson, J. U. (E)		Villa Rica, Ga.
Witt, L. H. (E)	Lexington	Swansea
Wooten, R. B. (A)	Chester	R. 1, Lewis' Turnout
Wright, G. F. (E)	Greenville	582 Pettigru St.,
Wyatt, B. W. (A)	Anderson	R. 4, Easley
s Yarborough, H. W. (A)	Fairfield	Wallaceville
s Youngblood, J. E. (A)	Barnwell	Elko

PRE-MEDICAL COURSE

Brunson, F. A. (2)	Sumter	436 N. Main St.
Carpenter, J. D. (1)	Aiken	Aiken
Heller, J. R. (2)	Oconee	Seneca
Hines, E. A. (2)	Oconee	Seneca
Horn, R. A. (1)		Tallassee, Ala.
Mace, A. P. (2)	Marion	Mullins
Massebeau, W. A. (1)	Chester	Chester
McCuen, W. M. (1)	Anderson	Belton
Poole, P. O. (1)	Cherokee	Gaffney
Ragin, J. J. (2)	York	R. 4, Rock Hill
Rivers, T. D. (1)	Sumter	R. 1, Oswego
Rubinowitz, B. (1)	Beaufort	Beaufort
Watkins, A. W. (1)	Newberry	Chappells

TWO-YEAR TEXTILE COURSE

Abercrombie, C. L. (2) F. B.	Oconee	R. 3, Seneca
Bolick, C. F. (2) F. B.	Greenville	43rd Avenue
Cannon, A. E. (1)	Spartanburg	R. 1, Clifton
Finch, W. M. (1)	Dillon	Kemper
Griffis, H. J. (1)		Tallassee, Ala.
Guyton, J. C. (1)	Anderson	Williamson
Hallman, A. L. (2)	Union	Lockhart
Hamrick, S. W. (1)	Richland	804 Whaley St. Columbia
Harris, A. A. (2)		Blue Mountain, Ala.
Hayes, W. H. (2) F. B.	Anderson	R. 2, Belton

Name and Course	County	Residence
Hooker, C. B. (2) F. B.	Orangeburg	North
Hutchinson, W. A. (2) F. B.	Anderson	Lee Street
Kelly, B. D. (2) F. B.	Darlington	Darlington
Kirkley, L. (2) F. B.	Chesterfield	Jefferson
Lipscomb, V. J. (1)	Kershaw	Camden
Loveless, H. L. (2) F. B.	York	Rock Hill
Moore, J. T. (1)		Marietta, N. C.
Rice, J. F. (2) F. B.	Pickens	Central
Strickland, P. E. (2)	Anderson	Belton
Teal, A. O. (1)	Oconee	Westminster
Thomas, D. L. (2)	Pickens	Liberty
Tilson, J. I. (1) F. B.	Greenville	R. 4, Greer

IRREGULAR COURSES.

Aldrey, A. L. (E.E.)		Caracas, Venezuela, S. A.
Bomar, J. T. (C.E.)	Laurens	Laurens
Carpenter, E. W. (T)	Greenville	530 College St.,
Ellzey, M. A. (M.E.)		Clyo, Ga.
Freeland, B. W. (A)		Crowley, La.
Gaess, J. P. (A)	Allendale	Appleton
Jackson, M. E. (T)	Greenwood	Greenwood
Jeffries, E. E. (Ind. Ed.)	Union	Union
Klugh, W. W. (A)	Pickens	Clemson College
Plexico, J. F. (A)	York	R. 4, York
Skinner, T. B. (A)	Spartanburg	R. 4, Woodruff
Smith, R. H. (T)	Pickens	Easley
Stevens, J. T. (A)	Charleston	Yonges Island
Watson, A. H. (A)	Lexington	Batesburg
Wilson, W. W. (A)		Russellville, Ark.

POST-GRADUATE STUDENTS.

Buie, T. S. (A)	Pickens	Clemson College
French, D. (C)		Frankfort, S. D.
Huffington, J. M. (A)		Eden, Md.
Hunter, H. A. (A)	Laurens	Clinton
Jensen, W. C. (A)		Harlan, Iowa
Lake, J. C. (T)		Wake Forest, N. C.
McHugh, M. L. (Ed)	Pickens	Clemson College
Mobley, F. B. (A) F. B.	Lancaster	Heath Spring

TWO-YEAR AGRICULTURAL COURSE

Beam, F. A. (2)	Anderson	R. 4, Pelzer
Bolt, G. W. (1)	Laurens	R. 5, Laurens
s Bonnette, A. L. (1)	Saluda	Monetta
Bramlett, J. W. (2)	Chester	R. 1, Leeds
s Burns, J. F. (1)	York	R. 1, York
Crosland, W. D. (1)	Marlboro	Bennettsville
s Culler, J. G. (1)	Lexington	Swansea
Dalrymple, C. L. (2)	Anderson	R. 1, Pendleton
Davis, L. B. (1)	Abbeville	Due West
Diaz, O. (1)		Tempoal, Mexico

Name and Course	County	Residence
[illegible], F. H. (2)	Anderson	R. 4, Anderson
Gramling, L. E. (2)	Orangeburg	R. 1, Orangeburg
s Grant, W. H. (1)	Chester	Chester
s Gunter, O. C. (1)	Aiken	R. 3, Wagener
s Hamilton, T. D. (1)	Laurens	Laurens
Harris, S. H. (2)	Anderson	R. 4, Iva
s Harvey, G. C. (1)	Oconee	R. 4, Westminster
s Holmes, R. A. (2)	Laurens	R. 1, Mountville
Hoyle, C. (2)	Cherokee	R. 1, Blacksburg
Huggins, J. A. (1)	Florence	Timmonsville
Kessler, G. S. (2)	Anderson	Pendleton
[illegible], H. E. (2)	Richland	Park
s Latham, C. G. (1)	York	R. 4, York
s [illegible] (1)	Richland	R. 3, Columbia
s McLaughlin, R. D. (1)	Florence	R. 1, Effingham
s Mason, R. S. (1)	Hampton	Estill
[illegible], T. C. (1)	[illegible]	[illegible]
s [illegible], A. L. (1)	[illegible]	[illegible]
Miller, H. J. (1)	Chester	Richburg
s Moore, S. E. (1)	Sumter	Dalzell
Myers, W. M. (1)	Florence	Scranton
Napier, C. D. (1)	Marlboro	Blenheim
s Newton, R. (1)	Marlboro	R. 2, Gibson
s Padgett, J. M. (1)	Colleton	Jacksonboro
Phifer, M. A. (2)	Spartanburg	[illegible]45 Marion Ave.
Price, D. A. (1)	Abbeville	Abbeville
s [illegible], R. L. (1)	Edgefield	R. 1, Johnston
Rhodes, L. C. (1)	Marion	Mullins
[illegible], L. S. (1)	Union	R. 1, Union
[illegible], S. H. (2)	Greenwood	[illegible]
Rogers, V. M. (1)	Marion	R. 2, Mullins
s Sarratt, W. (1)	Cherokee	R. 2, Gaffney
Sheppard, E. (1)	Orangeburg	R. 2, Orangeburg
Simpson, M. B. (1)	Chester	R. 2, Edgemoor
s Smith, A. J. (1)	Kershaw	Bethune
s Smith, J. A. (1)	Saluda	R. 2, Saluda
s Starnes, M. A. (1)	Cherokee	Blacksburg
s Steadman, C. L. (1)	Spartanburg	R. 3, Inman
Truluck, R. N. (1)	Lee	Lynchburg
s Turner, C. M. (1)	Barnwell	R. 2, Ellenton
Wallace, R. W. (1)	Laurens	Gray Court
[illegible], H. W. (1)	Anderson	R. 2, Pendleton
s White, H. L. (1)	Oconee	R. 1, West Union
s Williamson, J. H. (2)	Greenwood	Ninety Six
Wilson, C. D. (1)	Orangeburg	R. 1, Bowman
Wise, J. F. (1)	Saluda	R. 2, Batesburg

SPECIAL U. S. V. B. TRAINEES.

Name and Course	County	Residence
Allen, S. C. (A) F. B.	York	Rock Hill
[illegible], F. C. (A) F. B.	Pickens	R. 2, Pickens
[illegible], W. B. (T) F. B.	Pickens	R. 6, Easley
[illegible], M. W. (A) F. B.	York	Bullocks Creek
Bowers, R. S. (A) F. B.	Hampton	Estill
[illegible], G. G. (A) F. B.	Spartanburg	Chesnee

Name and Course	County	Residence
Brennecke, R. C. (A) F. B.	Orangeburg	Norway
Brewer, J. W. (T) F. B.	Greenville	Woodside Ave.
Brock, R. F. (A) F. B.	Anderson	R. 3, Iva
Brown, L. U. (A) F. B.	Anderson	Anderson
Byrd, R. W. (A) F. B.	Darlington	Dovesville
Condor, J. W. (A) F. B.	Berkeley	Hugher
Fallaw, E. L. (A) F. B.	Lexington	Batesburg
Findley, L. D. (A) F. B.	Oconee	R. 3, Walhalla
Gates, D. B. (A) F. B.	Calhoun	St. Matthews
Goude, G. O. (A) F. B.	Georgetown	Plantersville
Gerald, E. J. (A) F. B.	Sumter	Oxford
Gregory, C. (A) F. B.	Lancaster	R. 1, Heath Springs
Hendrix, R. (E) F. B.	Pickens	Pickens
Henson, W. F. (A) F. B.	Spartanburg	R. 2, Wellford
Hester, W. R. (A) F. B.	Greenville	Buncombe St.
Holt, W. E. (A) F. B.	Horry	Loris
Hopkins, W. S. (A) F. B.	Anderson	Belton
Hughes, F. J. (A) F. B.	Spartanburg	R. 3, Inman
Jones, W. J. (T) F. B.		Atlanta, Ga
Kay, C. D. (A) F. B.	Anderson	1043 W. Market St.
Kelly, J. F. (A) F. B.	Anderson	Belton
Lesley, T. A. (A) F. B.	Pickens	Liberty
Martin, J. C. (A) F. B.	Anderson	Anderson
Morgan, G. (A) F. B.	Spartanburg	Whitney
Morgan, W A. (A) F. B.	Pickens	Central
Oates, W. R. (A) F. B.	Pickens	Central
Powell, J. T. (A) F. B.	Pickens	R. 6, Pickens
Pratt, B. B. (A) F. B.	Pickens	Liberty
Prince, N. A. (A) F. B.	Oconee	Walhalla
Richardson, G. B. (A) F. B.	Marion	Marion
Shehan, D. B. (A) F. B.	Lancaster	Lancaster
Sides, A. H. (A) F. B.	Greenville	Virginia Ave.
Sligh, C. O. (ME) F. B.	Greenwood	Ninety-Six
Smith, R. H. (A) F B.	Anderson	Anderson
Stanton, H. M. (A) F. B.	Anderson	R. 5, Belton
Tripp, H. J. (E) F. B.	Anderson	R. 1, Toney Creek

SUMMER SESSION, 1923

TEACHERS COURSES

Name	Residence
[illegible], Mattie Mae	R. 1, Denmark
[illegible], Clara Leola	Abbeville
Alexander, Gladys Lois	R. 2, Walhalla
Allen, Annie Pearl	R. 7, Anderson
Allen, Leola	Greeleyville
Allison, Mary Ellen	Donalds
Arnold, Dolly Lois	R. 3, Central
[illegible], Olive Betsy	R. 1, Walhalla
Ashmore, J. E.	Fairplay
Attaway, Gertrude	Liberty
Ballard, Sadie	Pelzer
Bailey, Bessie Alexander	R. 4, Walhalla
[illegible], Georgia Bell	Iva
[illegible], Frances Rankin	Walhalla
Bell, O. R.	Bethune
[illegible], Vera Ruth	Seneca
Berry, Ethel Virginia	Elloree
Best, S. H.	Pacolet
Bethea, J. O.	Latta
Bishop, Gladys O.	Woodruff
Bishop, R. T.	Woodruff
Blackwell, Nora May	R. 4, Campobello
[illegible], Mae Pruitt	Westminster
Blakely, Kate	Simpsonville
Bodiford, Josephine	R. 3, Blackville
Boggs, Amber	Liberty
Boggs, Willie Leslie	Liberty
Bolt, Ruth Lawson	R. 4, Anderson
Boozer, Blanche	Newberry
Boozer, Grace	Newberry
[illegible], Mrs. Lora S.	Liberty
Bowen, Emma Catherine	Liberty
Bowen, R. E.	Liberty
[illegible], Alleen Cecelia	215 N. Dean St., Spartanburg
Brock, Caroline	Central
Brock, H. E.	West Union
Brown, J. C.	R. 2, Conway
Brown, C. A.	Seneca
Bullock, M. J.	Loris
Burton, Mae	Warrenville
Campbell, Edith Alberta	R. 2, Belton
Carpenter, Nina	Franklin, N. C.
[illegible], Sybil V.	Liberty
Carson, Orpha Esther	R. 1, Central
Chandler, Irene Edna	Liberty
Childs, Connie	Central
Cathcart, Millie Isetta	Winnsboro
Clark, Thelma	Springfield
Clayton, Clemie	Central
Clayton, Eunice	Central
Cleveland, Adeline	Westminster

Name	Residence
Coker, Lavinia Caroline	R. 3, Augusta, Ga.
Coker, W. P.	R. 3, Augusta, Ga.
Coleman, C. D.	R. 2, Anderson
Coleman, Elva Watson	Saluda
Coleman, Hazel Marie	Tamplico
Collins, Leone	Toccoa, Ga.
Colyer, Marion Edith	Williamston
Compton, T. B.	R. 1, West Union
Cooper, T. B.	Pamplico
Corbin, Emily	Richland
Cox, Floy	R. 1, Seneca
Cox, Frances Marie	R. 4, Belton
Cox, Lydie Mae	R. 4, Belton
Cox, Sue	Seneca
Craig, J. F.	Lancaster
Craig, Mabel Louise	Liberty
Crosby, H. H.	Ruffin
Crout, C. C.	Saluda
Crouch, J. E.	Monetta
Crouch, F. E.	Saluda
Cromer, Idelle K.	R. 2, Townville
Davis, D. R.	R. 2, Walhalla
Davis, H. G.	Marion
Deaton, Minnie Helena	R. 1, West Union
Derrick, E. L.	R. 1, Marion
Dickson, Ruth	Crawfordville, Ga.
Dickson, W. P.	Cross Anchor
Dobson, Mary Ola	R. 3, Central
Dobson, Ollie Lee	Gaffney
Dorset, G. N.	Ridge Spring
Douglass, Mary Lou	Whitmire
Drake, Blanche Christine	Anderson
Drake, Ruth Elizabeth	R. 1, Belton
Duncan, H. H.	Canon, Ga.
Durham, F. O.	R. 5, Pickens
Dye, Mattie	Richburg
Edward, Thelma Josephine	R. 2, Walhalla
Ellisman, Kathleen	Anderson
Eleazer, L. H.	Belton
Elrod, Ruby	Anderson
Embler, Mary Lee	R. 2, Townville
Elleridge, Norine Elma	Springfield
Evans, Margaret May	Pendleton
Falls, Martha Emily	Catechee
Fant, Eva M.	Seneca
Fant, Georgia Helen	Belton
Fant, Jessie L.	Belton
Felder, Dorothy Mattie	Pinewood
Ferguson, Laura Lee	Athens, Ga.
Fort, M. K.	Walhalla
Fowler, J. F.	R. 3, Walhalla
Freeman, Vivian Lucile	Easley
Funderburk, L. B.	Pageland
Funderburk, Marie Lee	Pageland
Gable, Olive	Antreville

Name	Residence
Gaines, Greta	Central
Gambrell, Esta Mae	Walhalla
Gambrell, Ola Lee	R. 3, Pendleton
Gardner, Ira B.	Kershaw
Gardner, Mrs I. B.	Kershaw
Garrett, Flora Belle	Norris
Garrison, Mrs, Susie F.	Sandy Springs
Garvin, J. P.	Norris
Gary, E. E.	Fountain Inn
Gentry, R. A.	R. 1, Anderson
Genoble, B.	Pacolet
George, Ethel Lucile	R. 5, Seneca
Gibson, J. W.	Branchville
Gilmore, J. L.	Lydia
Gilstrap, Clovie L.	R. 1, Pickens
Glasgow, Willie Ann	Conway
Glazener, Henrietta	West Union
Glenn, Anna Belle	Anderson
Glenn, Laura	Anderson
Glenn, Willette	Saluda
Gosnell, Gladys Marie	Seneca
Graham, Dorcas Elizabeth	R. 3, Pendleton
Griffin, Kathleen	Williamston
Griffin, Mary Hart	Williamston
Griffin, Milledge Hartwell	Pickens
Hagan, G. T.	Lake City
Hale, Daisy	Heath Springs
Hardee, Elaine Blanche	Loris
Hardin, Eloise	Lowndesville
Hardin, Sallie	Lowndesville
Harper, D. L.	Lowndesville
Harmon, P. K.	Prosperity
Harrelson, Ruth L.	R. 2, Nichols
Harrelson, Viola	Woodruff
Harris, Mamie	Belton
Harvin, Minnie Elise	Summerton
Hawkins, William Howard	R. 1, Wayside, Ga.
Hayes, Mattie	R. 3, Lake View
Haynes, Helen G.	Saluda
Hayes, Wilbur Haile	Pacolet
Henderson, Gladys May	Westminster
Hendricks, Thelma Mae	R. 4, Conway
Hiott, Nannie Mae	Spartanburg
Hillhouse, Swanee	Anderson
[illegible], Flossie	Nichols
Hodges, Jessie L.	Clemson College
Holley, Maude Albana	R. 1, Jefferson
Hollingsworth, Idalia	Cross Hill
Holman, Mrs. B. T.	Springfield
Holt, Mrs. Belle	Calhoun
Hopkins, Mrs. Stella Porter	Pickens
Hopkins, Mrs. Thelma McD.	Central
Howard, H. J.	Taylors
Huggins, C. B.	Westminster
Gable, S. W.	R. 1, Belton
Huestis, Mrs. Nellie Hitt	Cross Hill

Name	Residence
Huggins, J. T.	Nichols
Hughes, Mrs. Norma L.	Calhoun
Jervey, Mrs. Allen J.	Tryon, N. C.
Johnson, Mrs. A. L.	Columbia
Johnson, Helen Melissa	Columbia
Johnstone Lillian	Norris
Johnston, Lillie Odeliah	R. 2, Conway
Johnston, Maggie	R. 1, Central
Johnston, Norene Ella	Norris
Jones, Bess	Simpsonville
Jones, J. D.	Liberty
Jones, Vera Estelle	Westminster
Kay, Helen Claire	Westminster
Keasler, Annie Laurie	R. 2, Pendleton
Kempson, Mary Ellen	Silverstreet
Keown, Maude I	Walhalla
Keown, Annie	Seneca
Keown, Jessie	Walhalla
King, C. G.	McBee
King, R. F.	Simpsonville
Kirby, L. E.	Cordova
Kirkpatrick, M. H.	Jefferson
Knight, Lela D.	R. 4, Jefferson
Kolb, Annie Laurie	Pinewood
Kowalski, Ada	R. 1, Anderson
Lake, W. E.	Walhalla
Langford, Louise H.	Gillisonville
Langford, T. A.	Gillisonville
Lawrence, C. G.	Calhoun
Lawrence, Jessie	Greenwood
Lawrence, Mary Emily	Calhoun
Lawrence, Margaret Ruth	Calhoun
Lawrence, W. M.	Calhoun
Lawrence, Mrs. W. M.	Calhoun
Leake, Marion	Clinton
Lee, Bessie L.	Walhalla
Lemon, O. C.	Winnsboro
Lever, F. M.	Chapin
Lewis, Eva	Williamston
Lewis, Maggie Loraine	Williamston
Lewis, M. T.	Westminster
Lindler, Lillie Lorene	Saluda
Link, J. C.	Campobello
Lipscomb, Sara Eugenia	Ninety-Six
Long, Annie A.	Central
Covinggood, Willie Iris	Fair Play
Lumpkin, Edith	Seneca
Lyles, O. C.	Dovesville
McAlister, F. R.	Iva
McClanahan, Ella	Liberty
McColl, Aileen Bonnie	Six Mile
McConnell, Mrs. Saidee C.	Anderson
McConnell, Willie Grace	Westminster
McCullough, Hattie Shumate	Ware Shoals
McDaniel, George Anna	Central

Name	**Residence**
McHugh, M. L.	Clemson College
McLaughlin, E. H.	Effingham
McNeely, Maud Dewey	Lake Toxaway, N. C.
McTeer, Mrs. Caroline M.	Kline
McTeer, C. M.	Kline
Mackay, M. S.	Orangeburg
Maddox, Lou Ellen	Anderson
Mahoney, W. M.	Estill
Martin, G. H.	R. 4, Pendleton
Martin, Mrs. Lottie W.	Liberty
Martin, Margaret	R. 3, Pelzer
Martin, Nell Jones	Pelzer
Martin, Nettie Lee	McCormick
Massey, W. E.	Rock Hill
Massey, Mrs. W. E.	Rock Hill
Matheny, Mrs. Dora G.	Central
Matthews, J. D.	Timmonsville
Mayfield, Eula Alexander	Greer
Mays, Edna	Anderson
Mellichamp, W. L.	Ward
Middlebrook, Adelle	Covington, Ga.
Miley, J.	Burnson
Miley, W. H.	Burnson
Milford, Charlie Mae	R. 8, Anderson
Miller, Annie W.	Jefferson
Miller, Mayte Lee	Jefferson
Montgomery, I. P.	Gable
Moore, Carrie Ophelia	R. 8, Anderson
Moore, Clelia	Anderson
Moore, Mrs. Florrie G.	R. 3, Pendleton
Moore, Lucile	Lake City
Morrah, Bessie C.	R. 1, Troy
Mulkey, H. B.	Greenwood
Mullinax, R. C.	R. 3, Central
Myers, F. O.	Clarksville, Ga.
Norris, Ethel	R. 6, Anderson
Norris, Jessie	Piedmont
Norris, Mary Lee	R. 6, Anderson
Norris, Ruby	Anderson
O'Dell, Virginia Mary	R. 5, Easley
Oelkers, Ida Belle	Walhalla
Owens, Mrs. H. C.	R. 2, Williamston
Owens, Zoa Frances	Pendleton
Parker, A. W.	R. 3, Honea Path
Parsons, I. B.	Pickens
Patrick, G. B.	Bowman
Perry, Mrs. G. M.	Central
Pettigrew, Lizzelle	Iva
Pittman, Mrs. Sarah N.	R. 5, Seneca
Plowden, J. C.	Mount Carmel
Poore, Lois Irene	R. 4, Belton
Poore, R. D.	Walhalla
Porter, Bernice Edith	Calhoun
Porter, Edna Jean	Pickens
Porter, Melynda Rosalie	Pickens

Name	**Residence**
Porter, Pat. R.	Pickens
Pressly, Lois	Anderson
Pruitt, Tenia	Iva
Quinn, W. R.	Blacksburg
Ramsay, Helen Miller	R. 1, Calhoun
Rector, T. E.	Wellford
Reeder, L. E.	Mayo
Reid, Rosalie	Olar
Reynolds, J. B.	Lydia
Richbourg, S. E.	Clinton
Rice, C. P.	R. 4, Pelzer
Robuck, Annie Frank	Woodruff
Rogers, Addie C.	R. 2, Belton
Rogers, Alma	Clayton, Ga.
Rone, Mattie	Whitney
Rowland, Jeannette	R. 1, Seneca
Rushton, F. S.	R. 3, Greer
Russell, Annie May	R. 7, Anderson
Martin, J. R.	Liberty
Salley, Wilhelmina	Salley
Sams, Carrie O.	Gaffney
Sams, R. H.	Lake City
Sally, N. R.	Salley
Salley, J. D.	R. 2, Salley
Sally, H. B.	Salley
Saunders, H. M.	Smoaks
Seabrook, T. H.	McCormick
Shands, E. H.	Campobello
Shealy, J. H.	Ballentine
Shields, H. L.	R. 4, Spartanburg
Shirley, Mrs. Ruby S.	Honea Path
Shuler, Ruth Martha	Elloree
Simmons, Rachel	R. 3, Townville
Singleton, B. N.	Westminster
Singleton, Mary	Westminster
Skinner, Norah Lee	R. 5, Woodruff
Sligh, Eulala	Walhalla
Smith, Alice	Townville
Smith, Carrie E.	Toccoa, Ga.
Smith, M. E.	Madison
Snipes, Audrey Jeanette	Pelzer
Snipes, Imogene	Pelzer
Southard, Anna Belle	Madison
Spencer, Maude	R. 1, Madison
Stallworth, W. H.	Heath Springs
Stanley, G. A.	Marion
Stanley, J. C.	Loris
Steck, Pauline A.	Seneca
Stevenson, W. B.	R. 1, Richburg
Strawhorn, Arnette	Greenwood
Strickland, LaNelle	R. 2, Starr
Stuart, Marie Elizabeth	Anderson
Starr, Pink M.	Newman, Ga.
Templeton, Mrs. G. L.	Liberty
Thomas, Penola	R. 2, Franklin, N. C.
Thompson, Oline	Gluck Station, Anderson

Name	Residence
Todd, Mylene Leonora	Simpsonville
Traxler, D. W.	Branchville
Turner, Margaret Isabelle	Winnsboro
Turner, Pauline Eloise	Winnsboro
Turner, Virginia D.	Fair Bluff, N. C.
Tyler, Pearle S.	Nichols
Vandiver, Elma Louise	Anderson
Vandiver, Lucia	Antreville
Wade, G. L.	Chester
Walker, J. M.	Blackville
Watkins, C. L.	Anderson
Welborn, Mary Caroline	Anderson
Werner, Leontrie	Central
West, J. W.	Greer
West, W. W.	Westminster
Wham, Gladys Ida	Abbeville
Wheatley, J. F.	Mauldin
White, Mozelle	Woodruff
Whitmire, Alline	Tamassee
Wilkes, G. W.	Lake City
Williams, Nannie Mae	R. 5, Laurens
Williams, S. A.	R. 3, Abbeville
Wilson, Carrie	R. 9, Gaffney
Wilson, Mallie Adelia	R, 8, Anderson
Wilson, Nan	Belton
Wood, Mittie M	Madison
Worley, Edna Hooks	Loris
Wynne, Mamie G.	Westminster
Young, G. F.	Blythewood
Woodle, H. A.	Woodruff

U. S. V. B. STUDENTS

Abercrombie, S. L.	Seneca
Allen, S. L.	R. 2, Rock Hill
Allgood, T. G.	R. 2, Pickens
Anders, W. B.	R. 6, Easley
Ashe, M. W.	Bullocks Creek
Ballick, C. F.	Greenville
Barnes, K. S.	R. 2, Estill
Breeden, G. G.	Gaffney
Brennecke, R. C.	Norway
Brewer, J. W.	Greenville
Brock, R. F.	R. 3, Iva
Brown, L. C.	Anderson
Ellis, S. D.	Chesterfield
Fallow, E. I.	Batesburg
Findley, Darby	Walhalla
Gates, D. B	St. Matthews
Gerrald, E. J.	Oxford, Fla.
Goude, C. O.	Plantersville
Gregory, C.	Heath Springs
Grogan, J. R.	Westminster
Hayes, W. H	Belton
Henson, W. F.	Wellford

Name	Residence
Hester, W. R.	Greenville
Holt, W. E.	Loris
Hooker, C. B.	R. 3, North
Hopkins, W. S.	R. 3, Belton
Hutchinson, W. A.	Anderson
Hughes, Floyd, J.	Enoree
Jones, W. J.	Atlanta, Ga. 51 Cain St.
Kay, C. D.	Anderson
Kelley, B. D.	R. 5, Belton
Kelly, J. F.	Darlington
Kirkley, L.	Jefferson
Leslie, T. A.	R. 1, Liberty
Loveless, H. L.	Rock Hill
Morgan, W. A.	Central
Morgan, G.	Whitney
Oates, W. R.	R. 1, Central
Powell, J. T.	R. 6, Pickens
Pratt, B. B.	Due West
Prince, N. A.	R. 3, Walhalla
Rice, J. F.	Spartanburg
Richardson, G. B.	R. 1, Marion
Shehan, D. B.	Lancaster
Sides, A. H.	Greenville
Smith, R. H.	R. 2, Belton
Stanton, H. M.	R. 3, Belton

ENTRANCE COURSES.

Boggs, Lonita Mae	Liberty
Boggs, Marie Louise	Calhoun
Boggs, Norman Roy	Calhoun
Bozeman, Helen	
Bradley, Mark E.	Clemson College
Bradley, Thomas R.	Abbeville
Carlisle, Harold L.	Lowndesville
Carson, Willie Lee	R. 4, Anderson
Chapman, Hoyt	Calhoun
Cheswell, Mary	Westminster
Conradi, Karl Page	Clemson College
Daniel, Evelyn	Clemson College
Daniel, Ruth	R. 4, Anderson
Dendy, Mayme Emily	Richland
Fagg, Ethel	R. 8, Anderson
Hyman, James M.	Clemson College
Jervey, Caroline	Tryon, N. C.
Jones, Fred L.	Starr
Johns, John Henry	Westminster
Kelley Grace	Central
Klugh, Maria Louise	Clemson College
Kreps, Foster, Jr.	Ward
Mills, Mary Leighton	Clemson College
Montgomery, Margaret	Clemson College
Newman, Mildred Alba	Clemson College
Patterson, Thos. J.	Chatham, Va.
Quickel, Dorothy J.	102 Whitsette, Greenville

Name	Residence
Robinson, Grace Annie	Seneca
Russel, Ruth	401 E. Coffee St., Greenville
Vandiver, E. H.	Calhoun
Vandiver, Mary Jane	Calhoun
West, Kent Caroline	706 Pettigru St., Greenville
Wilson, George Vernon	Bowman

COLLEGE MAKE-UP COURSES

Acker, T. F.	Anderson
Aiken, C. C.	Anderson
Anderson, O. S.	R. 2, Timmonsville
Arledge, N. B.	West Union
Bankhead, W. W.	Lowryville
Barrs, T. A.	Clemson College
Bell, R. F.	Callison
Bodiford, H. O.	Clemson College
Boggs, Lonita Mae	Liberty
Bowie, Cynthia	Starr
Burgess, J. A.	Greer
Burley, F. A.	Monticello
Calvert, J. P.	Jonesville
Casey, H. F.	Anderson
Chamblis, Sallie Mae	Liberty
Chapman, W. E.	Denver
Chappell, I. W.	Jenkinsville
Cochran, G. B.	Donalds
Collins, D. M.	Clemson College
Corbin, J. F.	Greenville
Cox, F. M.	Belton
Darby, J. P.	1320 Senate St., Columbia
Davis, Mattie Elizabeth	Starr
Dillard, W. P.	R. 4, Greer
Edens, G. C.	Calhoun
Evans, Virginia Mary	Pendleton
Ezell, P. D.	Calhoun
Franklow, M. L.	Leesville
Freeman, W. C.	Clemson College
Fulmer, C. E.	Cope
Garrison, C. R.	Seneca
Gibson, R. F.	Norway
Goode, C. W.	Clemson College
Graham, F. A.	Smithfield, Pa.
Griffin, G. H.	Clemson College
Hargrove, F. W.	Dillon
Harrelson, O. M.	Loris
Hayes, B. M.	Anderson
Heller, J. R.	Seneca
Heelong, E. S.	St. Matthews
Hinson, H. S.	Lynchburg
Horn, M. B.	Tallassee, Ala.
Jackson, S. L.	R. 7, Anderson
Jeter, D. D.	Santuck
Johnson, W. P.	R. 1, Inman
Jones, P. C.	Starr

Name	Residence
Julien, C. T.	Greenwood
Klugh, J. B.	Abbeville
Klugh, W. W.	Clemson College
Knotts, W. T.	R. 1, North
Koon, H. E.	Peak
Lang, G. B.	Garnett
LaRoche, J. D.	Edisto Island
McCarley, C. R.	R. 3, Seneca
McGee, E. T.	R. 2, Starr
Mazyck, J. F.	160 Calhoun St., Charleston
Miller, J. R.	R. 6, York
Norton, J. J.	Walhalla
Orr, J. E.	Pendleton
Patterson, S. M.	Williamston
Pickens, R. W.	Easley
Poe, E. J.	Central
Pruitt, A.	320 W. Franklin St., Anderson
Reed, Thyra Francis	North
Roche, T. G.	Abbeville
Rowland, J. R.	Central
Rush, J. F.	Pendleton
Salley, H. D.	Salley
Sanders, D. M.	Hagood
Shanklin, J. A.	Greer
Stevens, J. T.	Yonges Island
Stewart, E. C.	Pelzer
Stoney, P. D.	Allendale
Strickland, P.	Belton
Tabor, W. P.	2111 Logan Terrace, Columbia
Townsend, T. S.	R. 1, Martins Point
Tsukiyama, Y.	Hiroshima, Japan
Vise, E. E.	1519 Sumter Street, Columbia
Webster, J. S.	Orangeburg
White, F. A.	R. 1, Timmonsville
Wilbanks, B. H.	Clemson College
Williams, B. L.	Gaines
Young, C. T.	Conyers, Ga.
Ziegler, H. J.	R. 6, Orangeburg

COTTON GRADING COURSE

Colbert, F. H.	Ardmore, Okla.
Darby, D.	Walhalla
Dowling, H. G.	Darlington
King, C. G.	McBee
McColl, R. C.	Norris
Murphree, W. F.	Murphy
Strother, J. R.	Walhalla
Tarrant, A. A.	Greenwood

POULTRY COURSE.

Cleveland, R. M.	Marietta
Jordan, J. M.	R. 1, Greenville
Raines, J. O.	218 Frank St., Greenville
Payne, C.	Pelzer
Taft, J. W.	Greenville

AGRICULTURAL CLUB BOYS SHORT COURSE.

Name and Course	County	Residence
Abercrombie, Ethbert	Laurens	R. 2, Laurens
Arant, Paul	Chesterfield	Pageland
Baker, Joe	Kershaw	Bethune
Butler, Horace	Spartanburg	Moore
Beckett, Luther	Cherokee	R. 1, Grover, N. C.
Boulware, Julian	Fairfield	Winnsboro
Bradshaw, Fred	McCormick	McCormick
Brown, T. J.	Sumter	Rembert
Burgess, Lee	Pickens	R. 3. Easley
Campbell, William	York	Tirzah
Carpenter, Claud	Chester	Lewis' Turnout
Carter, Robert	Greenville	R. 2, Greenville
Caughman, Geo. W.	Lexington	Lexington
Cummins, Charles	Charleston	Ravenel
Conyers, Henry	Clarendon	Gable
Cook, Charles	Laurens	Laurens
Copeland, Jacob	McCormick	Willington
Dorsett, Newton	Newberry	Silver Street
Flagg, T.	Anderson	Anderson
Farr, Gist	Spartanburg	Roebuck
Fleming, Harold	Laurens	Lanford
Fore, Dudley	Dillon	Latta
Fortenberry, Joe	Spartanburg	Moore
Fowler, Ira	Greenville	R. 1, Greenville
Garrison, Robert	Chester	Chester
George, Ross	Newberry	Prosperity
Gilmer, John	Laurens	Laurens
Hellams, Willie	Chesterfield	Jefferson
Hill, Broadus	Pickens	R. 3, Easley
Hinson, Finley	Lancaster	Lancaster
Hix, Tom	Anderson	Anderson
Johnson, Oby	Chesterfield	Jefferson
Jones, Daniel	Greenville	R. 2, Greenville
Knight, Frank	Lancaster	Lancaster
Long, Furman	Newberry	R. 1, Prosperity
Maxwell, Edgar	Greenville	R. 1, Simpsonville
McFadden, Roy	Clarendon	Sardinia
McLeod, J. T.	Sumter	Rembert
Means, Edward	Greenville	R. 1, Greenville
Meetze, Hendrix	Lexington	Lexington
Neal, George	Cherokee	R. 1, Grover, N. C.
Patrick, Christopher	Fairfield	White Oak
Patrick, Thomas	Fairfield	Woodward
Rector, Paul	Spartanburg	Wellford
Robinson, Connie	Lancaster	Lancaster
Rogers, Ryan	Laurens	R. 6, Laurens
Rogers, Leonard	Dillon	Fork
Ruff, Robert	Newberry	R. 2, Newberry
Strom, Cecil	McCormick	Willington
Smith, Hiram	Clarendon	New Zion
Smith, Palmer	Clarendon	New Zion
Stevenson, D. L.	Fairfield	Winnsboro

Name		Residence
Stony, Matt	Laurens	Laurens
Talbert, Laney	McCormick	R. 1, McCormick
Williams, Elwood	Kershaw	Bethune
Williams, Freeman	Kershaw	R. 2, Camden

ENROLLMENT SUMMARIES

REGULAR SESSION 1923-1924.

By Counties in South Carolina

Abbeville	10
Allendale	9
Aiken	27
Anderson	109
Bamberg	12
Barnwell	8
Beaufort	7
Berkeley	5
Calhoun	10
Charleston	28
Cherokee	23
Chester	34
Chesterfield	10
Clarendon	5
Colleton	13
Darlington	20
Dillon	15
Dorchester	6
Edgefield	7
Fairfield	13
Florence	26
Georgetown	6
Greenville	58
Greenwood	27
Hampton	7
Horry	11
Jasper	2
Kershaw	13
Lancaster	18
Laurens	29
Lee	4
Lexington	18
Marion	18
Marlboro	24
McCormick	6
Newberry	21
Oconee	49
Orangeburg	47
Pickens	49
Richland	32
Saluda	12
Spartanburg	49
Sumter	35
Union	21
Williamsburg	12
York	33
Totals for South Carolina	998

By States and Foreign Countries.

Alabama	6
Arkansas	1
District of Columbia	1
Florida	3
Georgia	15
Indiana	1
Iowa	1
Japan	1
Louisiana	1
Maine	1
Maryland	1
Mexico	1
New Jersey	1
New York	1
North Carolina	16
Oklahoma	2
South America	1
South Carolina	998
South Dakota	1
Texas	1
Virginia	1
West Virginia	1
Total	1,057

SUMMARY OF THE SUMMER SESSION 1923

Teachers' Courses	358
College Make-up Courses	84
Entrance Courses	33
Cotton Grading	8
U. S. V. B. Students	47
Club Boys' Courses	56
Poultry Courses	5
Total	591

Summary By Classes and Courses of the Regular Session.

Summary by Classes and Courses During the Regular Session

CLASS	Agriculture	Eng'ing Unclassified	Electrical Eng'ing.	Mech. Engineering	Civil Engineering	Textile Eng'ing.	Chemistry	Chem. Engineering	Architecture	General Science	Miscellaneous	TOTALS.
Senior	47		22	16	22	18	1	2	11	1		140
Junior	57	62			23	39	4	3	9	1		198
Sophomore	72	79			23	31	5	5	11			226
Freshman	143	187										330
Special and Irregular	14	1		1	1	7	1					25
Pre-Medical											13	13
Two-Year Agri.	61											61
Two-Year Textile						22						22
Special U.S.V.B. Trainees	36	3				3						42
TOTALS	430	332	22	17	69	120	11	10	31	2	13	1057

General Summary of Enrollment for 1923-1924

Regular College Session	1,057
Summer Session	591
Total enrollment	1,648
Less individuals enrolled in both Regular and Summer Sessions	125
Total individuals in attendance	1,523

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THE CLEMSON AGRICULTURAL COLLEGE

OF

SOUTH CAROLINA

THIRTY-SECOND YEAR

ANNUAL CATALOGUE

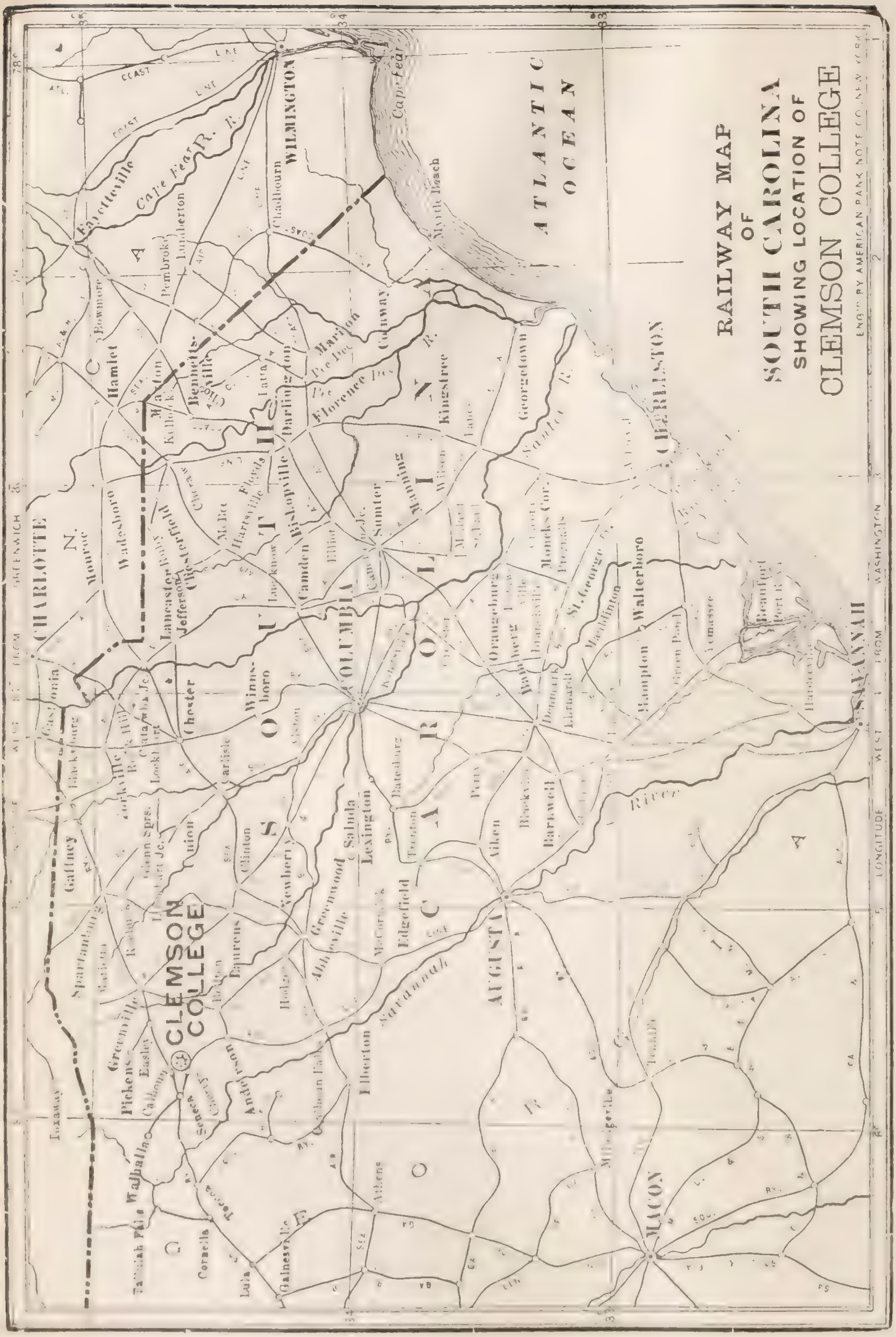
1924-25

ANNOUNCEMENTS

1925-'26

Telegraph and Post Offices: Clemson College, S. C.

Freight and Express Offices: Calhoun, S. C.



RAILWAY MAP OF SOUTH CAROLINA SHOWING LOCATION OF CLEMSON COLLEGE

ENG'D BY AMERICAN BANK NOTE CO. NEW YORK

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THE FRANKLIN CO. CHI.

CALENDAR FOR 1925

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CLEMSON COLLEGE CALENDAR

Session 1925-1926

1925

First Semester

Sept. 1—Freshman arrive. Cadet Field Officers, Company Commanders and first Sergeants report for duty.
Sept. 2—Work for Freshmen begins. Opening of the 33rd session.
Sept. 3-8—Freshman Week.
Sept. 7—Re-examinations and make up work for old students begin at 8:30 A. M.
Sept. 8—Old students arrive. Matriculation and registration. Re-emaminations and make up work end.
Sept. 9—Class work for old students begins.
Oct. 16—Stated Meeting of Board of Trustees.
Nov. 7—First half of first semester ends.
Nov. 26—Thanksgiving Day—A holiday.
Dec. 24—First day of Christmas holidays.

1926

Jan. 4—Students return from Christmas vacation by 11:30 P. M.
Jan. 19—Lee's birthday—Half holiday.
Jan. 30—First semester ends.

Second Semester

Jan. 31—Second semester begins.
Feb. 22—Washington's birthday—A holiday.
Mar. 18—Calhoun's birthday—Half holiday.
Mar. 19—Stated meeting of Board of Trustees.
Mar. 27—First half of second semester ends.
May 5—Stated meeting of Board of Visitors.
May 22—Examinations for Senior Class end.
May 24-29—"Make-up" week for Senior Class.
May 29—All examinations end.
May 30—Commencement exercises begin. Baccalaureate sermon. Closing exercises of the Y. M. C. A.
May 31—Closing exercises of the Literary Societies. Military exercises. Address of Alumni Orator. Alumni Meeting.
June 1—Commencement Day. Graduating Exercises.
June 18—Stated meeting of the Board of Trustees.
July 9—Scholarship and entrance examinations at the county seats.
July 12—Last day of receiving scholarship applications.

Note:—The above schedule is subject to change by the Faculty.

BOARD OF TRUSTEES

Life Members

ALAN JOHNSTONE, President	Newberry, Newberry Co.
J. E. WANNAMAKER	St. Matthews, Calhoun Co.
W. W. BRADLEY	Abbeville, Abbeville Co.
R. I. MANNING	Columbia, Richland Co.
A. F. LEVER	Columbia, Richland Co.
B. E. GEER	Greenville, Greenville Co.

Term Expires 1928

R. H. TIMMERMAN	Batesburg, Lexington Co.
H. C. TILLMAN	Greenwood, Greenwood Co.
W. D. BARNETTE	Columbia, Richland Co.

Term Expires 1926.

J. J. EVANS	Bennettsville, Marlboro Co.
I. M. MAULDIN	Columbia, Richland Co..
R. M. COOPER	Wisacky, Lee Co.

STANDING COMMITTEES OF THE BOARD *

(The first named is chairman).

Executive—Geer, Barnette, Bradley, Evans, Mauldin.

Finance—Mauldin, Bradley, Geer, Manning, Timmerman.

Agriculture—Wannamaker, Lever, Manning, Cooper Tillman. (This committee is also the Veterinary Committee, the Crop Pest Commission, and the Experiment Station Board of Control.)

Fertilizer—Manning, Evans, Tillman, Wannamaker.

---

*The President of the Board of Trustees is, ex officio, a member of all Committees.

BOARD OF VISITORS

1924

First District

Dr. A. R. Johnston .... St. George

Second District

E. A. Brown .... Barnwell

Third District

J. Wade Drake .... Anderson

Fourth District

Gordon Hughes .... Union

Fifth District

R. S. Stewart .... Lancaster

Sixth District

S. S. Tison .... Bennettsville

Seventh District

Dr. T. H. Dreher .... St. Matthews

ADMINISTRATIVE OFFICERS

SAMUEL BROADUS EARLE, A. M., M. E.,
Director of Engineering Department
Acting President.

CHARLES STEBBINS DOGGETT,
Director of Textile Department

RICHARD NEWMAN BRACKETT, Ph. D.,
Director of Chemical Department

WILLIAM WILLIAMS LONG, B. S., LL. D.,
State Agent of Farm Demonstration Work and Director of Extension Service

FRED HARVEY HALL CALHOUN, Ph. D.,
Director of Resident Teaching, Agricultural Department

HENRY WALTER BARRE, B. S., M. A.,
Director of Research, Experiment Station

OTIS R. COLE,
Lieutenant Colonel of Infantry, U. S. Army—Commandant
Director of Military Department

DAVID WISTAR DANIEL, A. M., Litt. D.,
Director of Academic Department

DAVID HILL HENRY, B. S.,
Director of Student Affairs

JAMES CORCORAN LITTLEJOHN, B. S.,
Registrar and Assistant to the President

SAMUEL WILDS EVANS,
Treasurer and Secretary of Board of Trustees

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Surgeon. Professor of Hygiene and Health Officer

MARGUERITE VERITY DOGGETT, A. B.,
Librarian in charge.

OFFICERS OF INSTRUCTION

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Director—Professor of English

CHARLES MANNING FURMAN, A. B.,
Emeritus Professor of English

SAMUEL MANER MARTIN, B. S.,
Professor of Mathematics

WILLIAM EMERA GODFREY, A. M.,
Professor of Physics

ALESTER GARDEN HOLMES, B. S.,
Professor of History

HARRINGTON COOPER BREARLEY, A. M.,
Professor of Economics and Sociology

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Professor of Mathematics.

MARK EDWARD BRADLEY, A. B.,
Professor of English.

JOSEPH EVERETT HUNTER, B. S.,
Associate Professor of Mathematics

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Assistant Professor of Mathematics

JOHN DEWEY LANE, A. M.,
Assistant Professor of English

OLIVER PHILIP HART, A. M.
Assistant Professor of Physics.

WILLIAM EMANUEL MUNTZ, A. B.,
Instructor in Physics.

* ARTHUR SPEECE WITHERS, M. A.,
Instructor in English

LUCIEN GASTON MOFFATT, A. B.,
Instructor in English

FRANCIS MARION KINARD, A. B.,.
Instructor in English

HENRY ASHBY RANKIN, Jr., A. B.
Instructor in Mathematics and Physics.

EDWIN LAKE SETZLER, A. M.,
Instructor in Academic Work.

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* On leave of absence for one year.

ENGINEERING DEPARTMENT

SAMUEL BROADUS EARLE, A. M., M. E.,
Director—Professor of Mechanical Engineering

RUDOLPH EDWARD LEE, B. S.,
Professor of Architecture and Drawing—College Architect

FRANK TOWNES DARGAN, M. S.,
Professor of Electrical Engineering

SAM R. RHODES B. S., M. S.,
Professor of Electrical Engineering

ELWYN LORENZO CLARKE, B. S.,
Professor of Civil Engineering

*DENNIS KAVANAUGH, M. E.,
Professor of Mechanical Engineering.

WILLISTON WIGHTMAN KLUGH, B. S.,
Associate Professor of Drawing and Designing

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Associate Professor of Mechanical Engineering

WALTER OSCAR SHUBERT,
Associate Professor of Machine Shop Work

** JAMES MASSIE JOHNSON,
Associate Professor of Forge and Foundry Work.

JOHN LOGAN MARSHALL, B. S.,
Associate Professor of Wood Work

REMBERT GARY ALLEN, B. S.,
Assistant Professor of Architecture

WILLIAM CARL AEGERTER, B. S., C. E.,
Assistant Professor of Civil Engineering

HOWART EMMIT GLENN, B. S., in C. E.,
Assistant Professor of Civil Engineering.

DAVID NIVIN HARRIS, B. S.,
Instructor in Drawing

***EDWARD JONES FREEMAN, B. S.,
Instructor in Forge and Foundry Work.

MAURICE SIEGLER,
Instructor in Drawing.

WILLIS WYATT WATKINS, B. S.,
Instructor in Electrical Engineering.

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* In place of S. B. Earle, Acting President.

** On leave for one year.

*** In place of J. M. Johnston, on leave.

AGRICULTURAL DEPARTMENT

FRED HARVEY HALL CALHOUN, Ph. D.,
Director—Professor of Geology and Mineralogy

CHARLES CARTER NEWMAN, B. S.,
Professor of Horticulture

HENRY WALTER BARRE, B. S., M. A.
Professor of Botany and Bacteriology

ROBERT OLIVER FEELEY, D. V. S.,
Professor of Veterinary Science.

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Professor of Agronomy

WILL GILES CRANDALL, B. S.,
Professor of Education

VERD PETERSON, Columbia, S. C.,
Consulting Professor of Agricultural Education

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Professor of Dairying

FRANK H. LATHROP, Ph. D.,
Professor of Zoology and Entomology

WILLIAM BARRE AULL, B. S.,
Associate Professor of Bacteriology

DUANE B. ROSENKRANS, A. B., M. A.,
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*THERMAN KELLY SISK, M. A.,
Associate Professor of Education

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Associate Professor of Animal Husbandry

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Associate Professor of Horticulture

BEN E. GOODALE, B. S.,
Associate Professor of Dairying

JOHN T. McALISTER, B. S.,
Associate Professor of Agronomy and Farm Machinery.

CLIFFORD O. EDDY, A. B., M. S.,
Associate Professor of Zoology and Entomology

GILBEART HOOPER COLLINGS, M. S., Ph. D.,
Assistant Professor of Agronomy

WILLIAM HAROLD WASHINGTON, M. S. A.,
Associate Professor of Education.

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*On leave.

MONROE EVANS GARDNER, B. S.,
Associate Professor of Horticulture.

WILLIAM DOYLE REED, B., S.
Assistant Professor of Entomology.

FRANK HILL ROBINSON, M. S.,
Assistant Professor of Agronomy and Soils.

DANA GIBSON STURKIE, M. S.,
Assistant Professor of Agricultural Education.

THOMAS L. AYERS, B. S.,
Assistant Professor of Agricultural Education.

MRS. W. B. AULL, B. A.,
Instructor in Botany.

CHEMICAL DEPARTMENT

RICHARD NEWMAN BRACKETT, A. B., Ph. D.,
Director—Professor of Chemistry

JOHN HARRIS MITCHELL, B. S., M. S.,
Professor of Chemistry

WILLIAM LEROY LIPPINCOTT, B Chem.,
Professor of Chemistry

FRANK HOWELL POLLARD, B. Chem., Ph. D.,
Assistant Professor of Chemistry

JOHN ALPHEUS BENDER, B. S., M. S.,
Assistant Professor of Chemistry

TEXTILE DEPARTMENT

CHARLES STEBBINS DOGGETT,
Director—Professor of Textile Chemistry and Dyeing

ROBERT KNIGHT EATON, A. B.
Professor of Weaving and Designing

HAROLD BENNETT ADAMS,
State Supervisor of Industrial Education

HAROLD WINSHIP HORTON,
Associate Professor of Carding and Spinning

ROBERT JOSEPH CHEATHAM, B. S.,
Assistant Professor of Textile Industry

MALCOLM E. CAMPBELL,
Instructor in Textiles

MILITARY DEPARTMENT

LIEUTENANT COLONEL OTIS R. COLE, (U. S. A.)
Director—Professor of Military Science and Tactics
Commandant of Cadets

CAPTAIN HENRY W. LEE, (U. S. A. Ret.)
Assistant Professor of Military Science and Tactics
Adjutant and Assistant Commandant.

CAPTAIN ALFRED G. BRADEN, Jr., (U. S. A.)
Assistant Professor of Military Science and Tactics

CAPTAIN ERNEST A. HIGGINS, (U. S. A.)
Assistant Professor of Military Science and Tactics

CAPTAIN THOMAS E. MAY, (U. S. A)
Assistant Professor of Military Science and Tactics

LIEUTENANT HAROLD R. EMERY, (U. S. A.)
Assistant Professor of Military Science and Tactics.

CAPTAIN JOHN E. OBERG, (Sergeant 1st Class, Medical Corps, U. S. Army, Retired),
Quartermaster—Assistant to the Commandant

FIRST SERGEANT JESSE M. PECK, (D. E. M. L.)
Instructor in Military Science and Tactics.

SERGEANT WILLIAM M. PARSONS, (D. E. M. L.)
Instructor in Military Science and Tactics

SERGEANT GILBERT E. NARAMOR (D. E. M. L.)
Instructor in Military Science and Tactics.

MISCELLANEOUS OFFICERS

MARGARET LEE SADLER,
Secretary to the President

JEAN BEVERLEY SLOAN,
Assistant to the Registrar

VIRGINIA EARLE SHANKLIN,
Stenographer to the Registrar

EDWARD BERNARD ELMORE,
Bookkeeper

B. B. BURLEY,
Assistant Bookkeeper

JAMES DOUGLAS HARCOMBE,
Mess Officer

WILLIAM H. SAUNDERS,
Director of Athletics. Head Coach.

CORNELIA AYER GRAHAM
Assistant Librarian

JAMES PERCIVAL LEWIS,
Superintendent of Roads

JOSEPH HEWER,
Superintendent of Construction and Repair

FERTILIZER ANALYSIS AND INSPECTION

RICHARD NEWMAN BRACKETT, A. B., Ph. D.,
Chief Chemist

HUGH MILTON STACKHOUSE,
Secretary Board of Fertilizer Control

BENJAMIN F. ROBERTSON, B. S.,
Chemist (Fertilizer Analysis)

JOHN TREUTLEN FOY, B. S.,
Assistant Chemist (Fertilizer Analysis)

BENJAMIN FREEMAN, B. S.,
Assistant Chemist (Miscellaneous Analysis)

MARGARET E. GASQUE,
Clerk to the Board of Fertilizer Control

RELIGIOUS OFFICERS

Y. M. C. A. Secretaries

PRESTON BROOKS HOLTZENDORFF, JR.,
General Secretary, Y. M. C. A.

THEO. LAFAYETTE VAUGH,
Assistant Secretary, Y. M. C. A.

College Pastors

*REV. GEORGE OLIVER GIBSON,A. B., A. M., B. D. S. T. M.,	Baptist
REV. GEORGE E. ZACHARY	Episcopal
REV. JOHN McSWEEN, B. S., B. D.	**Presbyterian**
REV. JOHN DAVID HOLLER A. B.	Methodist

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* Resigned September 15, 1924.

COMMENCEMENT SPEAKERS—JUNE 1924.

Baccalaureate Sermon

Bishop W. N. Ainsworth .... Macon, Ga.

Commencement Address

Dr. H. E. Ronthaler .... Winston-Salem, N. C.

STANDING COMMITTEES OF THE FACULTY*

Discipline—Earle, Brackett, Calhoun, Daniel, Doggett, Martin Barre.

Re-examination and Promotions—Martin, Brackett, Calhoun, Daniel, Dargan, Doggett, Earle, Littlejohn.

Entrance Requirements—Daniel, Calhoun, Holmes, Littlejohn, Martin.

Schedule—Lee, Aull, May, Henry, Holmes, Horton, Littlejohn, Martin, Mitchell, Rhodes.

Student Petition—Littlejohn, Blackwell, Henry, Martin, Rhodes.

Athletic—Henry, Calhoun, Shanklin, Mitchell, Saunders.

Library—Bryan, Calhoun, Dargan, Henry, Bradley, Doggett.

Irregular Students—Hunter, Aull, Bradley, Klugh, Mitchell.

Catalogue—Littlejohn, Daniel, Lee, Eaton, Mitchell, Rosenkrans.

Graduate Work—Rhodes, Crandall, Eaton, Martin, Pollard.

Religious Services—Earle, Bradley, Holmes,

Chapel Entertainments—Daniel, Johnstone, Martin, Henry.

State Fair—Harris, Aull, G. H., Horton, Emery, Mitchell, McAlister, Littlejohn.

Text-book—Shanklin, Cheatham, Harris, Mitchell.

Summer School—Calhoun, Daniel, Doggett, Horton, Henry Crandall, Klugh, Littlejohn.

Rules—Calhoun, Henry, Klugh, Littlejohn, Shanklin.

Campus—Newman.

Chapel Music—Carpenter.

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* The President is, ex officio, a member of all committees. The first named in each instance is chairman.

PART II.—ADMISSION—EXPENSES

ADMISSION TO COLLEGE

Session—1925-1926.

I.—General Requirements.—All applicants must be at least sixteen years of age at the time of entrance and must be free from contagious or infectious disease. A certificate of good moral character and honorable discharge from the last school attended is also required.

II.—Scholastic Requirements.—For admission to college the applicant must present fifteen units from an accredited high school, of which three units must be in English, two and one-half in mathematics, and two in history. The remaining seven and one-half units may be selected from the list of high school subjects.

An applicant who has not completed the course of study in high school will be required to stand entrance examinations.

III.—How to Make Application.—Those desiring to enter should write the Registrar, Clemson College, S. C., for the prescribed application blank. On this blank should be given a list of the subjects studied in school, the time devoted to each, and the quality of the work. The application should be returned to the college before August 15 or sooner if possible.

IV.—Methods of Admission.—An applicant may be admitted; (a) by certificates of graduation from high school; (b) by examination; (c) by individual approval for special students; or (d) by a combination of these methods.

(a) A **certificate** of graduation from high school signed by the proper official will admit an applicant to the freshman class without examination, provided the certificate entitles the holder to fifteen units. No credit will be given on certificate for work done in high school unless the applicant is a graduate of the school.

(b) **Examination.**—Applicants who are not graduates of secondary schools or applicants who are unable to enter on certificate will be required to take entrance examinations. Any of all entrance requirements may be met by examination. Candidates having examinations to stand are advised to take those examinations held by each county superintendent of education on the second Friday in July. These examinations are for the award of scholarships and for credit toward entrance. If by these examinations the candidate finds himself unprepared, he will be saved the expense of a trip to the college in September. Entrance examinations are also held at the opening of college in September.

V.—Admission of Special Students.—An applicant not less than twenty years of age may be admitted to the college wihout fulfilling the entrance requirements, provided he gives evidence of seriousness of purpose and of sufficient preparation to pursue the course with profit. Such a student must satisfy all requirements for admission before becoming a candidate for a degree.

A limited number of persons in good standing and over twenty-one years of age may be admitted as special students with the opportunity to pursue special lines of study or investigation in any of the subjects taught in the college, provided the work can be scheduled. Such students are not permitted to live in the barracks, but are subject to general regulations of the college requiring regular attendance, good conduct and diligent prosecution of the studies selected. Degrees are not given to students in special courses, but a certificate of proficiency will be given when the work completed is deemed worthy of it. Room and board may be secured in the community at reasonable rates.

VI.—Admission to Advanced Standing.—Work that has been taken in other colleges will be credited for an equivalent amount of work so far as it applies to any course offered in the college. The applicant must present: (a) a letter of honorable dismissal from the institution last attended, and (b) an official transcript of his record, including entrance credits. College credits given by transfer are provisional and may be cancelled at any time if the student's work is unsatisfactory. A student coming from another institution must spend at least one regular session in the college before he is eligible to apply for a degree. College credit may be given a graduate of an accredited secondary school by examination only.

High School Subjects Accepted for Admission to the Freshman Class

English—	
First year	1
Second year	1
Third year	1
Fourth year	1
Mathematics—	
Algebra	1½ or 2
Plane Geometry	1
Solid Geometry	½
Advanced Arith.	½
History—	
Ancient History	1
Med. and Mod. History	1
U. S. History and Civics	1
English History	1
Foreign Language—	
Latin	1 to 4
French, Spanish or German	1 to 2
Science—	
Biology	1
Chemistry	1
Physics	1
General Science	1
Physiography	1
Vocational—	
Agriculture	1 to 6
Com. Geography	1
Com. Arithmetic	1
Bookkeeping	1
Stenography	1
Manual Training	1 to 2
Drawing	1 to 2

General Information Regarding Admission of Students to all Courses

Students desiring to enter College should apply to the Registrar for application blanks, and these, properly filled out, should be returned to the Registrar as early in the summer as possible, and in no case later than August 15th. If later the applicant may be crowded out.

Certificates of good moral character are required of all candidates; and if the candidate comes from another college, this certificate must show that he was honorably discharged.

In the admission of students who have met the requirements of the College, the following will be observed.—

1. Students must undergo a medical examination, and no student will be admitted who is not healthy and free from contagious diseases including tuberculosis and venereal diseases. Vaccination is required of all students admitted.

2. In case the number of applicants exceeds the capacity of the College, students will be apportioned among counties in proportion to representation in the House of Representatives, under the following rules and regulations:

(a) As between applicants of equal preparation, the eldest will have the preference.

(b) Other things being equal, the first applicants will receive first consideration.

(c) When a county has not sent its quota, the places thus left shall be apportioned among the other applicants.

(d) Provided there is room in the barracks after the needs of the State have been met, students from outside the State may be admitted, and when once admitted may continue in College until the completion of their courses.

3. Applicants not entering promptly at the required date will have their rights given to applicants next on the roll.

Students upon arrival at the College at the opening of the session must report at once to the Registrar's office and matriculate before they will be assigned to quarters in the barracks. No student will be admitted to any of the classes or examinations of the College before matriculation and payment of fees.

Matriculation is equivalent to a pledge to conform to the rules of the College.

No applicant will be admitted until the following pledge has been filed with the Registrar. This pledge will be sent to old students and new applicants during the summer months, and must be returned promptly.

I, ..., hereby make application to enter the Clemson Agricultural College as a student for the session ....

In consideration of the advantages consequent thereon, **I solemnly promise on my honor** that, should I become a student of the said College during the said session,

(1) I will not strike, turn, or in any manner inflict pain or injury on any first-year student in said College, or by physical force compel any such student to perform any service or do any act incompatible with the conduct of a cadet and a gentleman.

(2) I will promptly, and of my own initiative, withdraw from said College, should I find myself unable or unwilling to keep the above promise.

(3) I will recognize the right of the President of the College to question me as to my observance of this pledge , and to answer truthfully any question touching my observance of it.

FEES AND EXPENSES

Settlement of College Fees.—Remittances should be made in cash, by money order. New York Exchange, or by local check, made payable to S. W. Evans, Treasurer. All required fees must be paid before a student can be assigned to a room in the barracks or permitted to begin work.

The fees and living expenses will be approximately as listed below. A leaflet giving the exact cost, including uniforms, will be mailed to the parents of all applicants prior to the opening of college in September. The cost of books, which varies with the class and course, is not included in the figures given below:

Living Expenses—

Board at $17.50 a month	$ 157.50
Laundry at $1.50 a month	13.50
Heat, light, water and room at $2.10 a month	18.90
Total Living Expenses	$189.90

Fees—

Student Activity Fee	$ 12.00
Incidental Fee	9.00
Laboratory Fee	2.25
Breakage Fee	3.00
Hospital Fee	11.25
Matriculation Fee	3.00
Total for all Required Fees	$ 40.50
Total Living Expenses and Required Fees	$ 230.40
Tution for resident students who pay, add	40.00
Non-resident students pay $80.00 tuition	

These figures do not include the cost of uniforms. See information in paragraph headed "Uniforms."

All payments are to be made quarterly in advance as follows:

Payable on	**High, with Tuition**	**Medium, with Free Tuition**	**Low, with Scholarship**
Entrance	$72.12	$62.12	$37.12
Nov. 7, '25	66.10	56.10	31.10
Jan. 30, '26	66.09	56.09	31.09
Mar. 27, '26	66.09	56.09	31.09
Total	$270.40	$230.40	$130.40

Uniforms.—All students are required to wear the regulation uniform of the college. The cost of the uniform garments needed by a student must be deposited with the Treasurer of the college at matriculation in September. The uniforms are made to individual measure and are purchased on the most favorable contract obtainable from a reputable manufacturer. The uniforms are the property of the student, the college merely acts as agent for the student and makes no charge or profit for handling.

If a student takes proper care of his uniforms and certain garments are serviceable for a second year, he will not be required to purchase a complete new outfit. The cost, therefore, to old students may be considerably reduced.

Any uniform allowances made to R. O. T. C. students by the Federal Government will be credited to the individual when the full amount of the commutation is received by the college.

Shoes: In addition to ordinary high top black shoes each cadet will be required to have one pair of tan shoes, army style.

Medical Fee: The medical fee paid by each student is intended to cover all ordinary cases of sickness and the treatment and medicines necessary. It is not intended to cover fees of doctors or specialists called into consultation, for performing operations, for special nurses, or for any medical or surgical attentions performed away from the college. Such expenses must be borne by the parent. The right of the college surgeon, with the approval of the President of the college, to incur in behalf of any student under his care any of these extra services is hereby expressly reserved.

Student Activity Fee: This fee entitles a cadet to admission to all lyceum entertainments, athletic games, privilege of Y. M. C. A. Building, and subscription to the college papers, "The Tiger" and "The Chronicle."

Breakage. The breakage fee of $3.00 is a deposit to cover damages or destruction of College property when individual responsibiliy can not be located. A student will be required to pay directly to the Treasurer for any damage done to College property for which he is personally responsible. The occupants of a room will be held responsible for any damage to property in the room.

Tuition. Tuition is $40.00 per session, payable quarterly. Free tuition is granted to residents of South Carolina unable to pay the same provided they comply with the State laws. All applicants for free tuition must file with the College the prescribed application to the State Board of Public Welfare. This blank will be sent to all applicants by August 15th, and must be returned properly filled in before the opening of College.

Immediately after the opening of College, the application is forward to the State Board of Public Welfare, which Board is required by law to investigate the finanical standing of the parents or guardian, or the applicant himself if he is of age. This Board reports its finding, together with its recommendations, to the Clemson College Board of Trustees, who may revoke or confirm the recommendations.

Any person required to pay tuition may appeal to the State Board of Education as provided by law.

Applicants filing the prescribed form will be granted free tuition pending investigation by the State Board of Public Welfare and action by the Board of Trustees. Applicants for free tuition will be notified of the results of the investigation by about the first of January.

Non-resident students pay $80.00 tuition.

All Students are required to provide themselves with two mattress covers, and two clothes bags. These are regulation articles and can be secured only at the Cadet Exchange. They will last for the entire course of four years and can often be bought second hand.

Refund to Students. Refunds will be made to students under the following rules:

1 A refund for uniforms will not be guaranteed to students who withdraw from the college after the uniforms have been ordered. If order cannot be cancelled the uniforms will be sent to the cadet upon receipt of the same.

2 A refund for **living expenses** will be made at the rates charged, but no refund will be made for interruptions of less than two weeks or in cases of discharge issued less than two weeks from the end of the current quarter.

3 No fees will be refunded.

4. A refund of all moneys, except the matriculation fee of $3.00 and $1.00 per day for board, etc. will be made to a student who fails to meet the entrance requirements and who leaves college within ten days of the date of his matriculation; provided, however that the refund for uniform cannot be guaranteed if the same has been ordered.

5 The college will not be liable for articles lost or stolen in the barracks.

6. The college will not be liable for lost or damaged laundry, unless reported within two days after the date upon which laundry was due to be delivered and then not more than the actual depreciated value of such articles as have been lost or damaged.

Optional Expenses. It is not possible to give an estimate of a cadet's expenditures for such amusements as dancing, moving pictures, etc. This depends largely upon the disposition of the young man. The college endeavors to reduce to a minimum the temptation to spend money needlessly, but the authorities cannot be responsible for a cadet's private expenditures. This must be a matter between him and his parents.

Subscription to the "Annual" and membership in the Literary Societies are very desirable, but are optional. These will cost approximately $5.00 for the session.

STUDENT HELPS

There is little opportunity at Clemson for a cadet to pay any large part of his expenses by working. There are few jobs that he can get, and his time is so fully taken up by college work that little remains except that which should be used in recreation and in participation in student activities. A substantial part of a college education lies outside the curriculum. If a student must labor every spare hour to pay his way, he not only dissipates his energy in non-educational effort, but he misses some of the choicest privileges of college life. He misses the chance to read in the library, to write for the college publications, to prepare for the literary society work, to engage in athletics and the many other items that go to make up college life at its fullest.

It is a much better investment for a student to borrow the small amount of money necessary to pay his way at Clemson than for him to take up all his spare time in non-educational effort.

Scholarships and membership in the R. O. T. C. are available sources of help to pay a cadet's way through Clemson. There are also several loan funds available under certain conditions to needy boys.

In the line of work that does not interfere with classes or recreation are about forty positions as waiters in the messhall. These positions require only about fifteen minutes before each meal and pay $8.00 per month—about half the cost of board.

FOUR-YEAR SCHOLARSHIPS

Statement of the State Laws and College Rules Governing the Award of Four-year Scholarships

1. Each county is allowed as many scholarships as it has representatives in the General Assembly. The total number for the State is now one hundred and seventy. The number of vacancies in any particular county can be learned by making inquiry of the Registrar of Clemson College.

2. Scholarship students are required to take one of the Agricultural Courses, except that one scholarship per county is allowed in the Textile Course. Scholarship students are not permitted to take the Engineering or other courses.

3. Each scholarship pays $100.00 per session in cash, and allows free tuition, worth $40.00 more. The regular scholarship is good for four consecutive years, unless terminated by the student's failure to maintain himself in his class and comply with the rules of the College.

The Trustees have ruled that failure to maintain himself cannot be excused on the grounds of sickness or other Providential reason.

4. A competitive examination is used as a basis for awarding the scholarships. The examinations are conducted by the County Superintendents of Education at the county seats, on the second Friday in July, from 9 A. M. to 4 P. M. (July 10, 1925).

5. All applicants are required to furnish the Registrar of Clemson College not later than July 13, 1925, the prescribed certificates showing financial inability, and the application form showing school preparation. The applicant may not be considered unless the above papers are received within the specified time.

6. The examination questions are prepared and the papers graded by the Clemson Faculty. The names of the applicants who pass the examinations and who are otherwise qualified are forwarded to the State Board of Public Welfare together with the certificates of financial inability. The State Board of Public Welfare then makes an investigation into the financial standing of the applicant, his parent or his guardian. The said Board reports its findings together with its recommendations to the Clemson College Board of Trustees. This Board makes a recommendation to the State Board of Education based upon the result of the examinations and the findings of the State Board of Public Welfare. The State Board of Education makes the final awards and hears appeals, as provided by law.

7. The applicant is tested by competitive examinations in agriculture, English, and mathematics.

8. The College has a right to reject any applicant who in respect to age (16 years at the time of entering), examinations, or **in any other respect**, fails to meet its requirements for admission.

9. The following are not eligible for scholarship appointments:

(a) A person who during the current year has won or holds a scholarship at another State institution.

(b) A person who has been in attendance at Clemson College or "any other institution of higher learning known as a college or university,"—provided however, that this condition shall not apply if there are no other eligible candidates for the scholarship.

(c) A person who has forfeited a scholarship at Clemson College or any other State institution by failure to maintain himself.

(d) A person, except the son of a minister of the gospel, who has not resided at least six months in the county in which he is applying for a scholarship.

10. No applicant shall be debarred from standing the examinations because he has failed to fill out the necessary certificate of financial inability as required by law. However, this certificate must be in the hands of the Registrar of Clemson College before the applicant can be considered eligible for a scholarship. (The blank certificate form can be obtained at any time from the Registrar of Clemson College, or from the County Superintendent of Education on the day of the examinations.) It must reach

the Registrar not later than noon of July 13, otherwise the appilcant will be eliminated from the competition.

11. If a scholarship vacancy shall occur, and the county to which it belongs has no eligible applicant, the Clemson Faculty may fill the vacancy by awarding the scholarship to some legally eligible applicant from another county. However, any such appointment shall not last longer than the current session.

12. No recommendations for scholarship awards to alternates will be made later than 30 days after the opening of the session.

The one hundred and seventy four-year scholarships provided in this institution by the Legislature are apportioned to the counties of the State according to law as follows:

Abbeville	3	Greenwood	4
Aiken	4	Hampton	2
Allendale	2	Horry	3
Anderson	7	Jasper	2
Bamberg	3	Kershaw	3
Barnwell	3	Lancaster	3
Beaufort	3	Laurens	4
Berkeley	3	Lee	3
Calhoun	2	Lexington	4
Charleston	9	Marion	3
Cherokee	3	Marlboro	4
Chester	3	McCormick	2
Chesterfield	3	Newberry	4
Clarendon	4	Oconee	3
Colleton	3	Orangeburg	6
Darlington	4	Pickens	3
Dillon	3	Richland	6
Dorchester	2	Saluda	3
Edgefield	3	Spartanburg	8
Fairfield	3	Sumter	4
Florence	4	Union	3
Georgetown	3	Williamsburg	4
Greenville	7	York	5

Note.—Scholarship students are credited at the beginning of each quarter with one-fourth of the value of the scholarship ($25.00). See fees and expenses for full information.

TWO-YEAR AGRICULTURAL SCHOLARSHIPS

The holders of these scholarships are required to take the Two-year Agricultural Course described elsewhere in this catalogue.

No financial certificate is required of applicants for these scholarships. The Act defining them is as follows:

"Sec. 1. **Beneficiary Scholarships for Clemson.**—There are hereby established and created fifty-one beneficiary agricultural scholarships in the Clemson Agricultural College of South Carolina, said scholarships to be of the value of one hundred dollars ($100) per annum, and free tuition, and to be awarded so that there shall be one scholarship to each county, and seven scholarships from the State at large.

"Sec. 2. **To Whom Open—Examinations.**—The said scholarships shall be open to any young man a native of South Carolina, eighteen (18) years old or over, who has spent not less than three (3) years in the active practice of farming, consideration being given to the need and worth of the applicant, and to his agricultural knowledge as shown by suitable examinations. All applicants shall stand such examinations as shall be prescribed by the proper authorities of the Clemson Agricultural College, and these examinations shall be held at the same time and in accordance with the general laws governing the examinations for other scholarship students.

"Sec. 3. **Board of Education to Appoint.**—The faculty of the said Clemson Agricultural College, or committee designated by the Board of Trustees for the purpose, shall recommend to the State Board of Education for appointment to the scholarships one of the young men who has successfully passed the examination and is otherwise qualified.

"Sec. 4. **How Scholarships To Be Paid For—Term of Scholarships.**—The said scholarships shall be paid from the income of the said Clemson Agricultural College as now provided by law, and each shall continue for a term not exceeding two years, or for such length of time as the beneficiary shall be able to maintain himself as a student of the college, and the said sum of one hundred dollars ($100) per annum shall be placed to the credit of each beneficiary and applied to the payment of his board and other necessary expenses.

The Harmon Foundation

The Harmon Foundation of 140 Nassau Street, New York City, has appropriated $1,000.00 as a loan fund to assist worthy students for the session 1923-24, with the understanding that a similar appropriation will be made for the sessions 1924-25, 1925-26, 1926-27, and 1927-28. Only juniors and seniors, studying in a course leading to a degree, are beneficiaries of this fund, and only those students whose means of support are dependent in whole or in part on their own labor are considered. A maximum loan in any one year is $250.00.

The students sign installment contracts bearing interest at the rate of six per cent, payable at the rate of not less than ten dollars monthly, payments to begin one year after graduation. Contracts will be discounted at the rate of six per cent of the principal, if principal and interest are repaid within one year after graduation.

To insure the fund against losses, each borrowing student makes his contract for the amount of money borrowed plus a premium of 10%. He thus becomes responsible to this extent for the defaults in the payments of loans made to other students in his own college group receiving loans the same year. The premium is not used to augment the funds of the Foundation, and is not used for administrative expense. If there are losses, the losses will be deducted from the premium collected and the balance of the premium with 6% interest will be returned to the borrowers in proportion to the amount of money loaned and repaid.

If there are no losses in the group-operation the entire premium collected will be returned with interest.

William Wilson Finley Foundation of the Southern Railway.

The sum of $1,000.00 has been deposited with the College to be used as a loan fund and is available for young men living in counties traversed by the Southern Railway or the Blue Ridge Railway. The following conditions govern the use of this fund:

(a) That no help be extended to a student during his first year in College.

(b) That after he has been in College for one year, and during that time demonstrated not only his need, but his worth in character, studiousness and promise, the President of the College may at any time during the session loan to such needy student a sum not to exceed seventy-five dollars in any one session, provided the beneficiary is pursuing a regular agricultural course (two-year or four-year course), is a resident of a county traversed by the Southern Railway, or the Blue Ridge Railway, and does not hold a scholarship of any kind.

(c) That the student receiving this financial assistance shall give his note bearing 6 per cent. interest, payable one, two, or three years after completion of course. The loans of the first year shall be payable within one year after completion of the course, and any second and third loans shall be payable two and three years respectively after date of normal completion of the course.

At the discretion of the President the student may be required to furnish at least one endorsement from a financially responsible party, who may be the student's parent or guardian.

(d) The President shall at the close of each fiscal year, June 30, make a statement to the Clemson College Board of Trustees and to the President of the Southern Railway, giving full details as to the use and status of the Fund.

(e) Not more than one-fourth of the Fund shall be loaned in any one fiscal year.

George Cherry Foundation

Mrs. Mary Cherry Doyle of Oconee County has donated the sum of $1,000.00 to be used as a loan fund to worthy and needy students from Oconee and the part of Anderson County including Pendleton. The purpose of the fund is to commemorate her father, the late George Cherry, whose old home is near the College.

The following conditions govern the use of this fund:

1. That after a student has been in college for one semester, and during that time demonstrated his character, studiousness and promise, as well as his need for help, the President of the College may at any time thereafter during the session, lend to such student a sum not to exceed $100.00 during any one session; provided, that loans shall be made only to students who are pursuing regular two year or four year courses, and who are residents of Oconee County, or of the territory within a radius of five miles of Pendleton Courthouse, and who do not hold other scholarships of any kind.

2. That the student receiving this financial assistance shall give his note bearing 6 percent. interest, payable one, two or three years after completion of course. The loans of the first year shall be payable within one year after completion of the course, and any second, third and fourth loans shall be payable two, three or four years respectively after date of normal completion of the course.

At the discretion of the President, the student may be required to furnish at least one endorsement from a financially responsible party, who may be the student's parent or guardian.

3. The President shall at the close of each fiscal year, June 30, make a statement to the Clemson College Board of Trustees, giving full details as to the use and status of the Fund, and this shall be published in the Oconee papers.

4. Not more than one-fifth of the Fund shall be loaned in any one fiscal year.

Conditions Governing The Use of the $500.00 U. D. C. Fund.

John C. Calhoun Chapter

a. That no help be extended to a student during his first year in college.

b. That after he has been in college for one year, and during that time has demonstrated not only his need, but his worth in character, studiousness and promise, the President of the College may at any time during the session lend to such needy student a sum not to exceed one hundred dollars in any one session, provided the beneficiary is a lineal descendant of a Confederate Veteran, and a member of the Junior or Senior Class.

c. That the student receiving this financial assistance shall give his note bearing 6 per cent interest, payable one or two years after the completion of the course. The loan of the first year shall be payable within one year after the completion of the course, and any second loan shall be payable two years after date of normal completion of the course.

The student obtaining a loan from this fund shall be required to furnish at least one endorsement from a financially responsible party, who may be the student's parent or guardian; provided such endorser shall be passed upon by a bank cashier.

d. The President shall at the close of each fiscal year, June 30, make a statement to the Clemson College Board of Trustees and to the President of the John C. Calhoun Chapter U. D. C. giving full details as to the use and status of the Fund.

e. Not more than one-forth of the Fund shall be loaned in any one fiscal year.

PART III.—STUDENT LIFE AND ACTIVITIES

LIVING CONDITIONS

At Clemson all undergraduate students live in barracks under military discipline. The College is located away from the distractions of city life while at the same time it possesses many of its advantages. A student cannot leave the campus without permission. He must at all times be present or accounted for.

The three barracks which house the students are steam heated and electrically lighted from the central power station located in rear of Barracks No. 2. Each building is provided with ample toilet facilities. In addition to the hot and cold water supplied to each of the barracks, running spring water is pumped to each floor for drinking.

The barracks or dormitories are divided into "halls" for military purposes, a unit being assigned to a hall under the supervision of a cadet officer. At night a cadet guard is maintained to insure order during study hours at which time the students are required to remain in their rooms.

Cadet officers remain on duty in the guard room both day and night. A long distance telephone with twenty-four hour service is located in the guard room.

Each student room is equipped with necessary furniture. The beds are single width. Bed linen, bed covers, pillows and towels must be furnished by the student.

The dining hall or mess hall is located in Barracks No. 1 and is under the supervision of the mess officer. The mess hall is well equipped with silverware, china, glassware, table linen, etc. The kitchen and cold storage plant is one of the very best in the South. All students living in the barracks eat in the mess hall.

RELIGIOUS INFLUENCES

Clemson co-operates to the fullest extent with the various churches and the Y. M. C. A. in the religious training of its students.

Four denominations, Baptist, Episcopal, Methodist, and Presbyterian have erected churches in the community. The college contributes liberally to the salaries of the resident ministers who do pastoral work among the students. All Protestant students are required to attend the Sunday morning services at one of the churches. Services for students of Roman Catholic faith are held frequently by a priest from one of the nearby towns.

Before beginning the day's work the faculty and students assemble in Chapel where brief devotional exercises are held by one of the local ministers. Attendance upon this service is required of all.

Sunday Schools and young peoples church societies are maintained by the local churches. Attendance upon these services is voluntary.

The Young Men's Christian Association is housed in its own building. The "Y" has become the chief social gathering place and is the center of voluntary religious activity. During the current session approximately 600 students have been enrolled in voluntary Bible Study Classes. Two trained secretaries are employed by the Association.

YOUNG MEN'S CHRISTIAN ASSOCIATION

The Young Men's Christian Association has supervision of the voluntary religious activities, of the students and endeavors to serve the religious, social, and physical life of the college community in keeping with the general policies of the International Organization. It is a democratic student society, advised by a board of faculty and business men, and administered by General and Assistant Secretaries who have no official connection with the college as disciplinarians or instructors.

There are ten divisions of its work, as follows: Bible Study, Mission Study, Community Service, Membership, Conference, Social, Religious Meetings, Church and Relationship, and Publicity. Each of these divisions is in charge of a student committee, and the genius of the organization lies in keeping these men active in making the will of Christ effective in the lives of men. The chairman of these several committees constitute the cabinet, which meets weekly for consultation and plans.

In 1922 a type of organization termed the Friendship Council was inaugurated which has for its object the promotion of Christian fellowship in barracks. The past year this organization was composed of more than 60 members. This organization is responsible for the organization of 15 daily Morning Watch or prayer groups in barracks having a daily attendance of around 200 students.

The Y. M. C. A. endeavors to enroll every man in Voluntary Bible Study, Mission Study and the study of Sex Hygiene. During the past year seven hundred men were enrolled in Voluntary Bible Study Classes, almost 200 in Sex Hygiene, and over 200 in Mission Study. These classes are led by students and professors.

The Y. M. C. A. endeavors to see that every man in college learns to swim. Free lessons are given by the Secretaries and the members of the swimming team. Class and company basketball is under the auspices of the Y. M. C. A.

Concerts are given under the auspices of the Y. M. C. A., usually by artists from nearby towns. Many speakers of national reputation come to Clemson upon the invitation of the Y. M. C. A. Among the men invited during the past year are: Dr. R. H. Bennett, and Dr. Alyn K. Foster.

CARE OF THE SICK

The Surgeon is one of the regular officers of the College, and his special duty is to look after the health of the students. He also has charge of the Hospital, and supervises all matters pertaining to the sanitation of barracks.

At a regular appointed time every day, students who so desire may consult the Surgeon, and those who are sick are cared for by experienced nurses in the College Hospital. In case of necessity students are allowed to consult the Surgeon at any time, or send for him, as may be required.

The Surgeon cannot undertake to notify parents every time a student reports to the Hospital for medicine, or for rest on account of some slight complaint. However, they may rest assured that they will be promptly notified of sickness of any consequence. In case of serious illness the Surgeon will telegraph them.

STUDENT PUBLICATIONS

The Clemson College Chronicle, a monthly magazine designed to encourage literary work among the students, is published jointly by the literary societies during the college session.

The Tiger, published weekly is devoted largely to athletics, Alumni and Local News.

The Annual, an illustrated volume, is published under the auspices of the senior class.

LITERARY SOCIETIES

Three literary societies, the Calhoun, the Columbian, the Palmetto, furnish a valuable supplement to the work of the college. These societies afford facilities for practice in debate, oratory, declamation, and essay writing, and their members acquire valuable knowledge of parlimentary law and usage. The meetings are held weekly, on Friday evenings. An annual contest is also held by each society, at which there are debates, orations, and declamations by the students.

On these occasions a representative is chosen from each society to enter the contest for the Trustees' Medal at Commencement. The societies themselves also award medals annually to the best debater, orator, and declaimer.

The societies occupy halls in the Academic Building, which are furnished with carpets and opera chairs and which are maintained entirely by the students. A small initiation fee is charged, and small yearly dues are collected to meet running expenses. All students are advised to join one of these societies.

State Oratorical Contest.—The societies also send a representative to the annual contests of the South Carolina Intercollegiate Oratorical Association, which includes the following institutions: Furman University, Wofford College, Clemson Agricultural College, Presbyterian College of South Carolina, Erskine College, Newberry College, South Carolina Military Academy, and the University of South Carolina.

LYCEUM COURSE

A Lyceum course, comprising about six numbers and employing some of the best talent on the American platform, is offered as a means of entertainment to students and others.

CLEMSON COLLEGE BRANCH OF THE AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

This organization is composed of instructors and students belonging to this national institution. This branch is maintained with the aim of acquainting the students with current engineering practice and problems.

STUDENT CHAPTER; AMERICAN SOCIETY OF MECHANICAL ENGINEERS

A local branch of this national society, composed of faculty members and of students pursuing mechanical engineering, is established at the college. Meetings are held periodically for the discussion of the latest engineering practices.

STUDENT CHAPTER: AMERICAN SOCIETY OF CIVIL ENGINEERS

Membership in this is limited to civil engineering students as follows: All seniors in good standing; the seven juniors having the highest class standing; and the one sophomore having the highest class standing.

Regular meetings are held monthly, and at such other times as exigencies favor. At these meetings engineering practice is presented and discussed; speakers from outside the college being obtained as often as practicable.

RESERVE OFFICERS' TRAINING CORPS

Under the provisions of the National Defense Act of June 3rd, 1916, the War Department has established at Clemson College an Infantry unit of the Reserve Officers' Training Corps (R. O. T. C.).

The purpose of the R. O. T. C. is set forth in Special Regulations 44, War Department, 1919, as follows:

1. The Reserve Officers' Training Corps is organized under authority of act of Congress of June 3, 1916, as amended by acts of Congress of September 8, 1916, and July 9, 1918. Extracts from these acts are contained in Appendix 1

2. The primary object of the Reserve Officers Training Corps is to provide systematic military training at civil educational institutions for the purpose of qualifying selected students of such institutions as reserve officers in the military forces of the United States It is intended to attain this object during the time that students are pursuing their general or professional studies with the least practicable interference with their civil careers, by employing methods designed to fit men, physically, mentally and morally, for pursuits of peace as well as pursuits of war. It is believed that such military training will aid greatly in the development of better citizens. It should be the aim of educational institutions to maintain one or more units of the Reserve Officers' Training Corps in order that in time of National emergency there may be instantly available a large number of educated men, physically efficient and trained in the fundamentals of military science and tactics and fitted to lead intelligently the units of the armies upon which the safety of the country will depend. The extent to which this object is accomplished will be the measure of the success of the Reserve Officers' Training Corps.

3. The Reserve Officers' Training Corps will enrich the educational resources of schools and colleges by contributing new problems, applications and equipment. This will not only vitalize the course of study but give to the student a training which will be as valuable to him in his industrial or professional career as it would be, should the Nation call upon him to act as a leader in its defensive forces.

Moreover, the wide variety of work recognized and accepted by the War Department as of intrinsic value for military purposes should leave on the mind of the student an indelible impression of the extent to which the modern Army is the nation in arms. Commerce industry, agriculture and all the professions have each their contribution to make to the military organization.

4. A military unit is largely dependent for its efficiency upon the physical fitness of the individuals composing it. Physical training, therefore, will form an essential part of the military instruction. It will be the policy to encourage and support the physical training given by civilian teachers, thus cooperating with all other

effective agencies in an effort to promote a more vigorous American manhood.

5. a. The policy adopted by the War Department to carry out the provisions of the act of Congress of June 3, 1916, is a matter of vital importance to every citizen interested in the educational system of our country and the development of American youth. It will aim to give all students of the Reserve Officers' Training Corps a thorough physical training, to inculcate in them a respect for all lawful authority, to teach the fundamentals of the military profession, leadership, and the special knowledge required to enable them to serve efficiently in the various branches of the military service.

b. The War Department aims to establish in selected civil educational institutions a system of training which will tend towards making better citizens and furnish a means whereby the graduates of such institutions can function more advantageously to the best interests of the nation in time of military necessity.

Requirements

All students at the college are required to take a minimum of three hours per week of military training. Members of the Freshman and Sophomore classes who are more than 16 years of age and who pass the physical examination must take the Basic Course as laid down by the War Department, and set forth under the heading "Military Department" in the detailed description of the course.

A Junior and Senior student may continue in the Basic Course or by conforming to the following rules may enter the Advanced Course:

1. He must have completed the Basic Course.
2. He must be recommended by the President of the college and the Professor of Military Science and Tactics.
3. He must agree in writing to continue the course during the remainder of his time in college, devoting not less than five hours per week to the subject, and to attend the one summer camp prescribed by the War Department.

Students taking the Basic Course in their Freshman and Sophomore years are furnished one uniform each year, or commutation at a rate prescribed by the War Department. Members of the upper classes continuing in the Basic Course are not considered members of the R. O. T. C. and are not entitled to the uniform or commutation therefor. Freshmen or sophomores and special or short course students who are not physically qualified for the R. O. T. C. and members of these classes who for other reason do not enter the R. O. T. C. are not entitled to uniforms or commutation thereof.

At present rates the Government commutation for uniforms next session would be $6.00 for the session for sophomores and seniors and $30.00 for the session to freshmen and juniors. These figures cannot be guaranteed as they are fixed each session by the War Department.

Those taking the advanced course are entitled to this uniform or commutation therefor. and in addition, to an allowance for subsistence, (thirty cents per day at present), during the remainder of their course at college including the vacation between their Junior and Senior years. During the time in camp they are given the ration instead of commutation for subsistence, and at present are paid seventy cents per day.

Summer Camps

As noted above under head of "Requirements," every one taking the advanced course must take, under Army supervision and at Government expense, one period of camp training of about six weeks duration.

Transportation to and from the camps, subsistence while in attendance, and a uniform for camp use will be furnished.

Obligations

The only obligation incurred by the student taking the Basic Course is to take proper care of the uniform issued to him.

No obligations are imposed on those in the Advanced Course except as set forth in the contract and noted above, namely—

(a) To continue in it to completion unless sooner discharged by competent authorities.

(b) To attend one summer camp.

After Graduation—Commission in O. R. C.

After completion of the college course and attending the period of camp training the student is released from any further service under his contract with the United States. But if he so desires, and is recommended by his instructors, he may apply for a commission in the Officers' Reserve Corps (O. R. C.). These commissions are issued for periods of five years. If his application is approved and the President of the United States will commission him, he may be required to report for instruction for a period not to exceed fifteen days in any one year, at Government expense, and under the salary of his grade. During this period of five years he may be called into active service only in case of actual or threatened hostilities. and then with the rank he holds in the Reserve,—Second Lieutenant or higher.

Appointment as Temporary Second Lieutenant in Regular Army.

Upon application, the President of the United States is authorized to appoint any Reserve Officer as a Temporary Second Lieutenant in the U. S. Army, and assign him to duty with the army for a period of six months. During this service he will receive

$100 per month salary and the allowances of a Second Lieutenant. At the end of the period of instruction he reverts to his status as a Reserve Officer.

ATHLETICS

It is the policy of the College to sanction and encourage athletics so long as it does not interfere with studies and other duties. Football, baseball, basketball, and track are the most popular sports, and it is assumed that parents are willing for their sons to participate in these games unless the President is definitely notified to the contrary. The athletic teams are permitted to take a few trips each season, usually on Saturday, to play intercollegiate games. The college is a member of the Southern Intercollegiate Conference (S. I. C.) and of the South Carolina Intercollegiate Athletic Association (S. C. I. A. A.).

Athletic Council.—The Athletic Associations to which the college belongs have placed the athletic interests at each college under the supervision of an athletic council, consisting of members of the Faculty, the Alumni and the student body.

The Council consists of thirteen members—four student members elected by the student body; three members of the Faculty—two elected by the students and one by the Alumni; four members of the Faculty (one of whom shall be the Director of Student Activities) appointed by the President; and two alumni members appointed by the Alumni Association.

A member of the Faculty, known as the Director of Student Affairs, has the final authority in all lines of student activities in so far as their relation to college rules are concerned.

Intercollegiate Athletics.—For the regulation of intercollegiate athletics, the Faculty has adopted the following rules:

1. No student who has a class mark lower than P in more than eight hours of work in any one term shall be allowed during the ensuing term to take part in any intercollegiate contest. Demerits shall be considered in the record, and more than forty demerits shall count as a failure in two hours of class work. Changing from one course to another, or from a regular to an irregular course, shall not interfere with the operation of this rule.

At the end of each grading period, the Faculty Athletic Commitee will canvass the record of athletes, and if any are found to be so deficient as to endanger their scholastic standing, they will be withdrawn from the squad.

2. Absences from College.—The football team shall be allowed a maximum of ten days absence from the campus during the session for games away from the college. The baseball team shall

be allowed a maximum of ten days; the band shall be allowed a maximum of seven days; the track team and the basketball team ten days. The tennis team, glee club, or any other organization hereafter sanctioned, shall be allowed a maximum of six days absence during each session. Saturday afternoon, Sunday, and holidays shall not count as days. No one contestant or representative shall be allowed to leave the campus for more than twenty days during the session, except at the discretion of the Faculty Athletic Committee.

3. No member of an athletic team shall be eligible for a managerial position in any other branch of sport.

4. No team shall be allowed to leave the college grounds to participate in any match games unless accompanied by a member of the Faculty, who shall be responsible to the Faculty for the conduct of the players and coaches while away from the college. Such representative shall be appointed by the chairman of the Faculty Athletic Committee, and his expenses shall be included in the expenses of the trip, provided that when any team, except the football team, leaves the college grounds, the chairman, at his discretion, may appoint a player or a manager in place of a member of the Faculty.

5. No student shall be eligible to participate in an intercollegiate contest who is away from the college without proper authority, or without having complied with all the rules or orders issued by the Commandant regarding such matters.

6. It shall be the duty of the Faculty Athletic Committee to see that the foregoing rules and regulations are strictly enforced.

CADET EXCHANGE

The college maintains a book and supply store known as the Cadet Exchange where students may purchase text-books, drawing instruments and other student supplies at reduced prices. A complete list of the text-books used in each course with the prices of same will be furnished on application.

PART IV.—ORGANIZATION AND GOVERNMENT

ORGANIZATION OF THE COLLEGE

By Departments and Divisions

1. **Agricultural Department**
    - Teaching
    - Research
    - Extension

Agronomy
Geology and Mineralogy
Horticulture
Veterinary Science
Zoology and Entomology
Dairying
Animal Husbandry
Botany and Bacteriology
Rural Sociology
Education.

2. **Engineering Department**

Mechanical Engineering
Electrical Engineering
Civil Engineering
Architecture and Drawing
Forge and Foundry
Machine Shop
Wood Shop

3. **Chemical Department**

Chemistry
Chemical Analysis (Public State Work)

4. **Textile Department**

Textile Chemistry and Dyeing
Weaving and Designing
Industrial Education
Carding and Spinning

5. **Academic Department**

English
History
Mathematics
Physics
Economics and Sociology

6. **Military Department**

Military Instruction
Military Discipline

7. **Student Affairs**

Cadet Funds
Student Activities

8. **Miscellaneous**

President's Office
Treasurer's Office
Library
Roads and Campus
Heat, Light, and Water
Construction and Repair
Museum

COLLEGE ORGANIZATION AND GOVERNMENT

Board of Trustees. The government of the college is vested in a Board of thirteen members, six of whom are elected by the Legislature and seven life and self perpetuating under the Clemson will. The function of this Board is legislative and not executive. The Board determines the general policy of the college, makes the laws for its government, and directs the expenditure of its funds.

The President is the chief executive and administrative officer of the Board of Trustees. He is the head of the college and is responsible for its satisfactory working and success.

The College is divided into seven departments, namely, Agricultural, Engineering, Chemical, Academic, Textile, Military, and Student Affairs. A Director is at the head of each department and is responsible to the President for its conduct and success. The departments comprise the various divisions indicated on the preceding page. Each division is in charge of a professor who acts as chief of the division. The President conducts all official business with each department through its Director.

The Faculty consists of all officers of instruction in the college. The voting members are the Directors, Professors, Associate Professors, and Assistant Professors.

The faculty meets at least once a month, or whenever called by the President, and is an advisory body to the President, on the instructional work of the college and on such other business as he may bring before it.

Faculty Committees. In order to aid him in his executive duties and to carry on the instructional work of the college, the President appoints committees from the Faculty. To these are assigned certain specified lines of work and the committees are clothed with full authority.

Student Activities.—The Department of Student Affairs embraces all those interests supported by the cadets, and all student activities except the Y. M. C. A. It is the aim of the college to assist in every possible way in making these interests helpful to the student body as a whole. The Director of Student Affairs is in charge of all such activities.

The Discipline Committee.—The Discipline Committe is composed of six directors of departments and two full professors elected annually by the Board of Trustees. This committee constitutes the court of the college and tries cadets charged with serious offences under the regulations. The President is the reviewing authority of the Discipline Committee, and may at his discretion set aside or modify the sentences imposed. A parent, or a cadet over age, has the right to appeal from the sentence of the Discipline Committee to the Board of Trustees, provided the appeal is lodged with the President of the College within thirty days. This appeal must be forwarded to the President of the Board of Trustees, who if he deems the appeal meritorious, shall present it at the next regular or called meeting of the Board.

All trials by the Discipline Committee are open to the public, and all testimony is taken under oath and recorded stenographically as in a civil court. A student on trial may have some member of the faculty to assist him in his defense if he so desires.

CADET MILITARY ORGANIZATION AND GOVERNMENT

Clemson College is operated as a military school,—not for the purpose of making soldiers, but in order that the students may learn important life-lessons of obedience to authority, punctuality, system, courtesy and loyalty. The military system insures proper exercise and physical development, guarantees to the parent that the student shall at all times be present at the college, or away by proper authority, insures attendance upon classes and other duties, and insures proper provision for study as well as for recreation.

The military system places every student on the same basis. All students must dress alike, eat at the same table, live under the same conditions, and be subject to the same privileges and the same restraints. No distinction whatever is made because of wealth or social position or any other such consideration. The only distinguished men in a cadet corps are those who achieve the distinction by being able to do some one thing better than their fellow students.

The military system does not in any way interfere with the regular college work, and on the other hand enables this to be carried on at the highest efficiency. It is the military training more than any other single feature that gives to Clemson's graduates an advantage which is an impartant factor in their future progress and success.

The President.—The President of the College shall have the general command and government of the Institution, watching over its administration, discipline and instruction. He shall have authority to make rules, from time to time, governing the granting of permits and furloughs to cadets; to inspect anything in a cadet's room or personal bagage; to suspend or modify these regulations, or to publish special regulations when he considers it necessary.

which shall have the authority of the Board of Trustees until they shall act on the same. He shall prescribe the hours of study, drill and recreation.

Commandant.—The Commandant of Cadets, under the President, has supervision of the Corps of Cadets in all that pertains to its organization, drill, military police, discipline and administration. He shall prescribe the order in which the furniture, beddng, books, clothing, equipment, etc., shall be arranged throughout the barracks and shall make a thorough inspection of the rooms, furniture, arms, equipment and uniforms of the cadets at least once each week. He shall have the right to inspect anything in a cadet's room or personal baggage. He shall perform such other duties as are prescribed in these regulations. He shall have the rank of Colonel.

Assistant Commandants.—The Assistant Commandants shall perform such duties as may be prescribed for them by the President or Commandant.

Military Instruction.—All students, excepting Post Graduates, must take a minimum of three hours military instruction per week. All who pass the required physical examination must take the Basic Course prescribed by the War Department for the R. O. T. C. during their Freshman and Sophomore years.

Members of the Junior and Senior classes are selected by the Professor of Military Science and Tactics, subject to the approval of the President, to take the Advanced Course prescribed for the R. O. T. C., receiving certain financial benefits allowed by the Federal Government.

Cadet Officers And Non-commissioned Officers—The Cadet Officers and Non-commissioned Officers are appointed by the Commandant, subject to the approval of the President. When practicable they shall be appointed from members of the R. O. T. C. who have been most studious and soldier-like in the performance of their duties and most exemplary in their conduct. No cadet may decline any office to which he may be appointed.

As a rule the Officers shall be appointed from the Senior class, the Non-commissioned Officers except Corporals from the Junior class, and the Corporals from the Sophomore class.

Study Hours.—Study hours are those parts of the day when cadets are required to study and shall be prescribed in orders.

Chapel and Church.—All students are required to attend Chapel Services, except on Saturday and Sunday. All students except Catholics and Jews are required to attend Divine Services at one of the local churches on Sunday mornings.

Furloughs and Passes—Any cadet who has been granted a furlough or pass and who stays over the time stipulated unless for sickness or other good and valid reasons acceptable to the Commandant, will lose his place in the college, and will be required to file a new application for admission, and pay a fee of $5.00 before being allowed to rematriculate. In case he has been sick a certificate from the attending physician must be submitted, and no such certificates will be accepted unless the President or Commandant has been notified in advance of the date the cadet is due to return.

The Commandant may, at his discretion, in lieu of rematriculation and payment of fee, punish the cadet by arrest, extras, etc., according to the nature of his offense, the punishment not to exceed one month's arrest, 20 demerits and 20 extras. All cadets returning late on furlough or pass are placed in room arrest pending an investigation of the reason for their late return.

All communications from parents requesting furloughs for their sons must be addressed or sent directly to " The Commandant" or to "The President,." and must set forth fully the reason for the request. No furloughs will be granted unless the reasons given are considered satisfactory and sufficient justification for any loss of time for absence from classes or other duties. Telegrams which do not explain fully will not be accepted as complying with the above rules. In any case in which business is given as a reason, the nature of the business must be explained fully.

A parent has the right to demand a discharge from college at any time and for any reason but the college authorities reserve the right to grant or refuse to grant furloughs.

Week End Leaves.—Week end leaves will be granted only to cadets who have attained to a prescribed standard in discipline.

Hazing.—Hazing is positively forbidden. Any cadet proven guilty of hazing in any form whatever will be dismissed from the college. Every cadet entering college will be required to sign a pledge agreeing to certain conditions in this connection.

Demerits.—Demerits are awarded for every unremoved report, the number depending on the nature and degree of the offense. Any cadet receiving eight-five demerits during any one semester or a total of one hundred and fifty demerits during the session shall be required to withdraw from college.

Discharge.—No cadet unless twenty-one years of age and paying his own way at college shall be discharged except on the written application of his parents or guardian addressed to the President or the Commandant, or for reasons satisfactory to the President.

Failure to Pay Dues.—The President may require a cadet to withdraw from college if after due and reasonable notice his dues to the college are not paid.

Text Books.—Each student will be required to own his own text books and necessary equipment, except in the case of brothers in the same class who occupy the same room.

All cadets shall submit their text books and other equipment for inspection at such times as are ordered.

Day Cadets.—All cadets shall live in the barracks, except those who live with their parents or relatives near enough to attend from their homes. Those so living at home shall be known as "Day Cadets." All will be required to live in the baracks at least six months of the freshman or sophomore year as may be directed by the President. No cadet will be given a Bachelor's Degree unless he shall have lived at least two-thirds of one session in barracks. Day cadets are subject to the Cadet Regulations.

Motor Vehicles.—No cadet or day cadet shall own or operate as his own any automobile or motorcycle during the regular session of the college.

PART V.—REQUIREMENTS FOR DEGREES—COURSES OF STUDY.

FACULTY RULES

Grades and Examinations 1. The semester hour shall be the basis of all credits. One recitation hour or two laboratory or shop hours per week for one semester shall constitute a semester hour.

2. Reports of standing in class shall be made by all instructors through the Director to the Registrar at the middle and at the end of each semester. These reports shall be based on daily recitations and such tests as may be required.

3. Written examination shall be required in all subjects at the end of each semester, except in certain laboratory or practical courses where not deemed necessary by the departmental faculty.

4. A semester grade once reported to the Registrar shall be the final grade for the period covered.

5. Separate grades shall be given on theoretical and practical work except where in the judgment of the departmental faculty separate grades are not practical.

6. No semester grade shall be given out until the close of the examination period for that class.

7. A student who for reasons satisfactory to the Faculty is absent from any of his semester examinations, will be allowed to make up these examinations during the following semester at the convenience of the instructor.

8. All work missed on account of absences from class must be made up to the satisfaction of the instructor.

9. When an instructor completes a subject he may hold an examination on it before beginning the next subject, provided such examination does not conflict with the regularly scheduled work .

10. The grading system shall be as follows:

E—Excellent
S—Satisfactory
P—Passable
D—Conditioned. (Deficient on work, either class or examination, which in the opinion of the instructor may be made up by a re-examination)
F—Failed. (Deficient on work, either class or examination which in the opinion of the instructor must be taken over in class)
I—Incomplete record due to absence or other causes.
?—Symbol to be used in Registrar's office to denote a missing grade.

Conditions and Failures 11. A student who has made grades of D or F on more than 9 credit hours of work at the end of the first semester or more than 18 credit hours at the end of the session shall be required to withdraw from college.

12. Ten credit hours of conditions may be removed during a regular make-up period and eight credit hours of failures taken over at an approved summer school or during the regular session.

13. All conditions, except for seniors, must be removed during the make-up period preceding the opening of the regular session in September. Only one re-examination will be permitted. All conditions or incomplete grades (D, I) not removed by the first class day of the first semester shall become failures and must be taken over as such. Seniors may remove conditions during the week preceding commencement.

14. All failures or take-over work shall be scheduled first and a continuation subject in the next higher class shall not be scheduled until credit has been received for its prerequisites. All take-over work must be scheduled within ten days after the beginning of a semester and not more than five actual clock hours may be scheduled in addition to the published curriculum.

15. A student who has failed in a subject cannot receive credit for that subject until it has been repeated hour for hour in class, except that in the case of correlated laboratory work, the number of hours to be taken shall be determined by the instructor. Where separate grades for class and laboratory work are given the subject shall be repeated in full.

16. A student who schedules subjects in addition to the regular curriculum and fails to pass on any work at the end of the first mid-semester, shall drop the additional work.

17. A student who has take-over work in addition to the required hours and fails to pass on any work at the end of the first mid-semester shall drop a sufficient number of hours of the regular advanced subjects to reduce his scheduled hours to the required minimum.

18. A senior who fails to graduate because of either one D or one F on any subject shall have an opportunity of removing it by examination during the make-up period in September, provided the cadet can furnish evidence of having done satisfactory study. Failing to do this he shall take the subject over with the next class. In either case, the degree will not be awarded until the following commencement.

Requirements for Grduation 19. The completion of as many credit hours as are listed in the description of courses in the catalogue shall be required for a degree. All work must be completed by 5 P. M. on the Saturday preceding commencement.

20. Residence of at least one regular session shall be required for graduation.

Classification 21. In general, students will be classified with the class in which they are taking the majority of their credit hours.

22. A student taking an irregular or special course must schedule as many as 12 credit hours.

Change of Course 23. No change in course will be permitted after the first thirty days of a session.

Honors and Medals 24. The names of all cadets who at the end of each semester have no failures, no work to make up, and not more than 30 demerits, shall be published and a notice sent to their parents.

25. The Norris Medal shall be awarded to that graduate who shall deserve the same because of meritorious conduct and scholarship. His scholarship shall be determined by the average semester marks for the last three years of his college course.

Miscellaneous 26. Each student shall be required to own his individual text books and the necessary equipment except in the case of brothers in the same class who room together.

27. All requests from the students to the faculty must be made in writing.

MEDALS AND HONORS

Honorable Mention.—Students who at the end of a semester have no failures, no work to make up, and not over thirty demerits will have their names publicly announced, printed in "The Tiger," and notification sent to their parents.

Trustees' Medal.—The Board of Trustees has established a gold medal, to be awarded annually to the best speaker among the representatives of the literary societies at Commencement. These representatives are chosen by judges selected by the societies at the annual public exercises in Memorial Hall. The medal is awarded by judges selected by the Faculty. (The medal was won in 1924 by Cadet J. C. Aull of Newberry County.)

Norris Medal. The following is from the will of Hon. D. K. Norris, a life trustee of Clemson, who died in 1905:

"I give $500 face value, Norris Cotton Mill stock, to the Trustees of Clemson Agricultural College of South Carolina, on condition the dividend thereon shall be applied annually to the purchase of a gold medal, to be known as the 'Norris Medal,' to be awarded to the student of Clemson meriting the same at graduation, under such rules and conditions as may be perscribed by the said Board of Trustees, and which medal shall have engraved on it 'Honos habet onus' (Honor brings responsibility)."

In 1924 the medal was awarded to L. C. Tolleson of Cherokee County.

R. W. Simpson Medal. A medal designated as the "R. W. Simpson Medal" is awarded annually to the best drilled cadet in the freshman, sophomore, or junior class. In 1924 the medal was awarded to R. L. Bunch of Charleston.

Literary Society Medals.—It is customary for the several literary societies to hold annual contests during the session. Gold medals are usually awarded to the best debaters, orators and declaimers.

The Chronicle Medals.—The Chronicle, the monthly magazine published by the literary societies, also usually awards three gold medals, for the best story, the best poem, and the best essay contributed by students during the year.

Farmers' Certificates of Merit,—Beginning with the session of 1914-1915 certificates of merit have been awarded each session to two farmers in South Carolina who have rendered distinguished services in the agricultural development of the state.

In 1924 the certificates were awarded to Mr. J. B. Douthit, Jr., Pendleton, S. C., and Mr. J. W. Gaston, Duncan, S C.

DEGREES, DIPLOMAS, AND CERTIFICATES

The degree of **Bachelor of Science** is awarded to those students who satisfactorily complete one of the four-year curricula. The course completed is specified on each diploma.

All work for a degree must be completed by 5 P. M. on the Saturday preceeding commencement. Residence of at least one regular session is required for graduation. Diplomas are delivered to the candidates on Commencement Day.

Every candidate for a degree must pay to the Treasurer of the College prior to graduation the cost of the diploma.

The degree of **Master of Science** is for the present offered to candidates majoring in Education. The enroll for graduate work the student must be a graduate of an approved college or university.

Certificates.—Students who satisfactorily complete one of the two-year short courses are given certificates.

COURSES OF STUDY

The College offers the following courses of study:

AGRICULTURE
- (a) Four-year courses in Agriculture with major work in Agronomy, Animal Husbandry, Chemistry, Dairying, Education, Entomology and Horticulture.
- (b) Two-Year Course in Agriculture.

CHEMISTRY
- (a) Four-year course in Chemistry.

ENGINEERING
- (a) Four-year course in Architecture.
- (b) Four-year course in Civil Engineering.
- (c) Four-year course in Electrical Engineering.
- (d) Four-year course in Mechanical Engineering.

TEXTILE
- (a) Four-year course in Textile Engineering.
- (b) Four-year course in Industrial Education.
- (c) Two-year course in Textile Industry.

GENERAL SCIENCE
- (a) Four-year course in General Science
- (b) Pre-Medical Course.

SUMMER SCHOOL

Short courses are offered during the months of June and July to teachers, cotton graders, agricultural club boys, candidates for admission to college, and college students with work to make-up.

(EXPLANATION—In the curricula which follow the first column of figures represent the number of semester hours of credit assigned to each subject, The two figures in parentheses are the actual number of hours per week spent in class and laboratory respectively.

All students who are candidates for the Bachelor's Drgrees are required to take military drill three hours per week. In the junior year the R. O. T. C. students take in addition two hours of class work in Military Science, while the non-R. O. T. C. take Business Law the first semester and Meterology the second semester.

(The R. O. T. C. seniors take also the two hours of Mliitary Science and the non-R. O. T. C. take Psychology.)

I.·-AGRICULTURE

The course in Agriculture, supplemented by work in Mathematics, English, Political Economy, Rural Sociology, History, and the Natural Sciences. allows no differentiation during the first and second years. Its object is to give the student a broad, general knowledge of the subject so that he will have a sound foundation for specialization during his Junior and Senior years. At the end of the Sophomore year it is expected that he will be able to choose intelligently which line of agricultural work he desires to follow.

In the Junior year a student is given the choice of four general branches of Agriculture. He may select one of the following groups: Animal Industry, Plant Industry, Agricultural Chemistry, and Agricultural Education. At the beginning of the Senior year, the student who as a Junior selected the Animal Industry group will major either in Animal Husbandry or in Dairying. The student who as a Junior selected Plant Industry. will major in either Agronomy, Horticulture, or Entomology. The student who selected Chemistry will continue his chemical work, and the student who selected Agricultural Education will continue the study of this subject. A major course requires six hours per week of recitations, and six hours per week of laboratory each semester. In addition to the major work during the Senior year, a sufficient number of elective courses must be selected to bring the number of semester credit hours up to 18. A minimum of 18 semester credit hours is required. No student can elect over 20 semester credit hours without special permission of the faculty. In calculating semester credit hours, two hours of laboratory count as one hour of theoretical.

COURSE I.—AGRICULTURE

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 1	3	(3,0)	Mathematics 2	3	(3,0)
English 1	3	(3,0)	English 2	3	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Chemistry 1	5	(4,2)	Chemistry 2	4	(3,2)
Biology—Botany 1	3	(2,2)	Biology—Botany 2	3	(2,2)
Drawing 1 and Shop 5	2	(0,4)	Drawing 8 and Shop 6	2	(0,4)
Military Science 1	1.5	(0,3)	Military Science 2	1.5	(0,3)
	20.5			19.5	

SOPHOMORE YEAR

English 3	3	(3,0)	English 4	3	(3,0)
Physics 3	3	(2,2)	Physics 4	3	(2,2)
Geology 1	3	(3,0)	Geology 2	1	(0,2)
Morphology—Botany 5	3	(2,2)	Zoology 2	4	(3,2)
Forestry—Botany 3	2	(2,0)	Animal Husbandry 2	4	(3,2)
Corn and Cotton—Agron. 1	4	(3,2)	Farm Machy.—Agron. 2	4	(3,2)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0,3)
	19.5			20.5	

JUNIOR YEAR

English 5	2	(2,0)	English 6	2	(2,0)
Agric. Chemistry 13	2	(2,0)	Agric. Chemistry 14	2	(2,0)
Bacteriology 1	4	(2,4)	Dairy Husbandry 2	3	(2,2)
F. Management—Agron. 3	3	(2,2)	Soils—Agron. 4	4	(3,2)
Horticulture 1	3	(2,2)	Horticulture 2	2	(1,2)
Military Science 5	3.5	(2,3)	Military Science 6	3.5	(2,3)
Electives	3		Electives	4	
	20.5			20.5	

Junior Elective Subjects.

(Choose one group)

Group A—Animal Industry

Prin. Feeding—Ani. Husb. 3	3	(2,2)	Veterinary Science 2	3	(2,2)
			Judging—Dairy H. 4.	1	(0,2)
			Animal Husbandry 8a	1	(0,2)

Group B—Plant Industry

Entomology 3	3	(2,2)	Plant Phys.—Botany 6	4	(2,4)

Group C—Chemistry

Organic Chemistry 5	2	(2,2)	Organic Chemistry 6	3	(2,2)
Quant. Analysis—Chem. 3a	1	(0,2)	Quant. Analysis—Chem. 4	1	(0,2)

Group D—Education.

Agric. Education Ed. 1	3	(1,4)	Agric. Education 2	3	(2,2)

SENIOR YEAR

At the beginning of the senior year the student is required to select one of the following major groups and in addition a sufficient number of electives from its accompanying list to make not less than 18 or more than 20 semester credit hours for each semester.

The student must schedule during the first semester either Political Economy 1, or Rural Sociology 1, as one of the electives.

Agronomy Major—1

First Semester			Second Semester		
Genetics—Agron. 5	3	(2,2)	Plant Breed.—Agron. 6	3	(2,2)
Crops—Agron. 9	3	(2,2)	Crops—Agron. 10	3	(2,2)
Forage Crops—Agron. 7	3	(2,2)	Fertilizers—Agron. 12	3	(2,2)
Military Drill 7	1.5	(0,3)	Military Drill 8	1.5	(0,3)

Agronomy Electives.

Drainage—Agron. 13	3	(2,2)	F. Equipment—Agron. 14	3	(2,2)
Marketing—Agron. 17	3	(2,2)	F. Management—Agron. 16.	3	(2,2)
Entomology 3	3	(2,2)	Plant Path. Botany 8	3	(2,2)
English 7	2	(2,0)	English 8	2	(2,0)
Education 2	3	(2,2)	Education 16	3	(3,0)
Education 11	4	(3,2)	Rural Sociology 2	3	(2,2)
R. O. T. C.—Advanced 7	2	(2,0)	R. O. T. C. Advanced 8	2	(2,0)

Animal Husbandry Major—2

Feeds—Ani. Husb. 5	3	(2,2)	Beef Production—A. H. 6.	3	(2,2)
Animal Production—A. H. 7	3	(2,2)	Pork Production—A. H. 8	3	(2,2)
Judging—Ani. Husb. 9	3	(2,2)	Breeding—Ani. Husb. 4	3	(2,2)
Military Drill 7	1.5	(0,3)	Military Drill 8	1.5	(0,3)

Animal Husbandry Electives

Veterinary Science 3	3	(2,2)	F. Management—Agron. 16	3	(2,2)
Marketing—Agron. 17	3	(2,2)	English 8	2	(2,0)
English 7	2	(2,0)	Rural Sociology 2	3	(2,2)
Forage Crops—Agron. 7	3	(2,2)	Education 16	3	(3,0)
Genetics—Agron. 5	3	(2,2)	Fertilizers—Agron. 12	3	(2,2)
Education 2	3	(2,2)			
Education 11	4	(3,2)			
R. O. T. C.—Advanced 7	2	(2,0)	R. O. T. C.—Advanced 8	2	(2,0)

Chemistry Major—3

Colloid Chemistry 19	2	(2,0)	Colloid Chemistry 20	2	(2,0)
Hist. of Chemistry 17	2	(2,0)	Stoichiometry—Chem. 18	2	(2,0)
Inorg. Chemistry 21	2	(2,0)	Inorg. Chemistry 22	2	(2,0)
Tech. Analysis—Chem. 23	3	(0,6)	Thesis Chem. 24	3	(0,6)
Military Drill 7	1.5	(0,3)	Military Drill 8	1.5	(0,3)

Chemistry Electives

Mineralogy 7	3	(2,2)	Mineralogy 8	3	(2,2)
English 7	2	(2,0)	English 8	2	(2,0)
			Rural Sociology 2	3	(2,2)
			Fertilizers—Agron. 12	3	(2,2)
			Bacteriology 4	4	(2,4)
R. O. T. C. 7	2	(2,0)	R. O. T. C. 8	2	(2,0)

Dairy Husbandry Major—4

First Semester			Second Semester		
Dairy Mfg.—Dairy Husb. 5	3	(2,2)	Dairy Mfg.—Dairy Husb. 6	4	(2,4)
Creamery Org.—D. Husb. 7	3	(3,0)	Dairy Farm.—Dairy Husb 12	3	(2,2)
Feeds—Dairy Husb. 9	3	(2,2)	Breeding—Dairy Husb. 10	2	(1,2)
Military Drill 7	1.5	(0,3)	Military Drill 8	1.5	(0,3)

Dairy Husbandry Electives.

Veterinary Science 3	3	(2,2)	Rural Sociology 2	3	(2,2)
Forage Crops—Agron. 7	3	(2,2)	Bacteriology 2	4	(2,4)
Genetics—Agron. 5	3	(2,2)	English 8	2	(2,0)
English 7	2	(2,0)	Pork Production—A. H. 8	3	(2,2)
Education 2	3	(2,2)	Education 16	3	(3,0)
Education 11	4	(3,2)			
R. O. T. C.—Advanced 7	2	(2,0)	R. O. T. C.—Advanced 8	2	(2,0)

Education Major—5

Agricultural Education 3	4	(2,4)	Agricultural Education 4	5	(0,10)
Military Drill 7	1.5	(0,3)	Agricultural Education 6	3	(3,0)
			Military Drill	1.5	(0,3)

Education Electives

Genetics—Agron. 5	3	(2,2)	F. Management—Agron. 16	3	(2,2)
Marketing—Agron. 17	3	(2,2)	Plant Path.—Botany 8	3	(2,2)
Forage Crops—Agron. 7	3	(2,2)	Farm Equip.—Agron. 14	3	(2,2)
Farm Shop—Agron. 15	2	(1,2)	Rural Sociology 2	3	(2,2)
R. O. T. C. Advanced 7	2	(2,0)	R. O. T. C. Advanced 8	2	(2,0)

Entomology Major—6

Econ. Entomol.—Ent. 5	3	(2,2)	Econ. Entomal—Ent. 6	3	(2,2)
Morphol-Taxonomy—Ent. 9	3	(2,2)	Orchard Insects—Ent. 12	3	(2,2)
Ani. Parasitology—Ent. 11	3	(2,2)	Agriculture—Ent. 10	3	(2,2)
Military Drill 7	1.5	(0,3)	Military Drill 8	1.5	(0,3)

Entomology Electives.

English 7	2	(2,0)	Quarantine Meth.—Ent. 16	3	(2,2)
Education 2	3	(2,2)	English 8	2	(2,0)
Education 11	4	(3,2)	Meteorology—Geology 10	2	(2,0)
Pomology—Hort. 3	3	(2,2)	Education 16	3	(3,0)
			Pomology—Hort. 4	3	(2,2)
			F. Equipment—Agron. 14	3	(2,2)
			Plant Path.—Botany 8	3	(2,2)
			Rural Sociology 2	3	(2,2)
R. O. T. C.—Advanced 8	2	(2,0)	R. O. T. C.—Advanced 8	2	(2,0)

Horticulture Major—7

Pomology—Hort. 3	3	(2,2)	Pomology—Hort. 4	3	(2,2)
Plant Propagating—Hort. 9	3	(2,2)	Olericulture—Hort. 8	3	(2,2)
Olericulture—Hort. 7	3	(2,2)	Landscape G.—Hort. 6	3	(2,2)
Military Drill 7	1.5	(0,3)	Military Drill 8	1.5	(0,3)

Horticulture Electives.

First Semester			Second Semester		
Genetics—Agron. 5	3	(2,2)	F. Equipment—Agron. 14	3	(2,2)
Marketing—Agron. 17	3	(2,2)	F. Crop Insects—Ent. 10	3	(2,2)
English 7	2	(2,0)	English 8	2	(2,0)
Education 2	3	(2,2)	Education 16	3	(3,0)
Education 11	4	(3,2)	Plant Breeding—Agron. 6	3	(2,2)
R. O. T. C.—Advanced 7	2	(2,0)	Meteorology—Geology 10	2	(2,0)
Economic Ent.—Ent. 5	3	(2,2)	Rural Sociology 2	3	(2,2)
			Economics Ent.—Ent. 6	3	(2,2)
			R. O. T. C.—Advanced 8	2	(2,0)
			Plant Path. Botany 8	3	(2,2)

II.—ARCHITECTURE

Architecture, always ranked as a fine art, is the oldest of the constructive sciences. It deals principally with the design of buildings, their sites and presentation, their construction, decoration and equipment. It is more circumscribed by utilitarian and technical conditions than any other of the fine arts, and in order to be successful it must be both practical and artistic.

Architectural design is the principal subject and much time is given to it. In this subject students in the drafting room, work out designs for buildings ranging from small structures to large public buildings and groups of buildings. Occasionally, a "sketch" problem, which has to be completed the same day, is given, but usually the problems require from three to six weeks for their completion. Individual criticism is given by the instructor during the progress of the problem and upon completion the drawings are hung up, criticized, judged and graded by members of the faculty. Thus, each student may profit by the experiences of others. The aim throughout this course is to develop imagination, creative power, ability to work out the organism of a building and skill in the clear and artistic presentation of the drawings.

History of architecture is also of great importance in this connection, for the architect must know the experiences and inspirations of the past, its successes and failures, that he may better live. think and build in terms of the present. The courses in freehand drawing and historic ornament are given not only for training in draftsmanship, but for creating effective work.

Strong courses in the constructional or engineering side of the profession, such as mathematics, mechanics, building construction, structural or working drawings and specifications, are given.

Students pursuing this course are advised to spend one or more summers in the routine work of an architect's office, as those who have had this experience advance faster in their work. A two year course will be offered for mature men who have had extended experience in architects' offices.

COURSE II.—ARCHITECTURE

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 3	5	(5,0)	Mathematics 4	5	(5,0)
English 1	3	(3,0)	English 2	3	(3,0)
Physics 1	3	(2,2)	Physics 2	3	(2,2)
History 1	3	(3,0)	History 2	3	(3,0)
Drawing 3, 11	2	(0,4)	Drawing—Arch. 2, 4,	3	(0,6)
Shops 3, 19	2	(0,4)	Des. Geom.—Arch. 6	2	(0,4)
Military Science 1	1.5	(0,3)	Military Science 2	1.5	(0,3)
	19.5			20.5	

SOPHOMORE YEAR

Analytics—Math. 5	4	(4,0)	Calculus—Math. 6	4	(4,0)
English 3	3	(3,0)	English 4	3	(3,0)
Hist. of Arch.—Arch. 7	3	(3,0)	Hist. of Arch.—Arch. 8	3	(3,0)
Design—Arch. 11	7	(0,14)	Design—Arch. 12	7	(0,14)
Cast Draw.—Arch 9	1.5	(0,3)	Cast Draw.—Arch 10	1.5	(0,3)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0,3)
	20			20	

JUNIOR YEAR

English 5	2	(2,0)	English 6	2	(2,0)
Calculus—Math. 7	3	(3,0)	Graphic Statics—C. E. 10	3	(3,0)
Mechanics—M. E. 3	3	(3,0)	Str. Materials—C. E. 8	3	(3,0)
Bldg. Construction-Arch. 17	3	(3,0)	Bldg. Construc.—Arch. 18	3	(3,0)
Design—Arch. 15	5	(0,10)	Design—Arch. 16	5	(0,10)
Cast Draw.—Arch. 13	1	(0,2)	Cast Draw.—Arch. 14	1	(0,2)
Military Science 5	3.5	(2,3)	Military Science 6	3.5	(2,3)
	20.5			20.5	

SENIOR YEAR

Economics—Econ. 1	2	(2,0)	Sociology—Econ. 2	2	(2,0)
Bldg. Construc.—Arch. 23	5	(5.0)	Bldg.Construc.—Arch. 24	5	(5,0)
Heat and Sani.—Arch. 25	2	(2,0)	Heat and Sani.—Arch. 26	2	(2,0)
Design—Arch. 19.	5.5	(0,11)	Design—Arch. 20	5.5	(0,11)
Struct. Design—Arch. 21	3	(0,6)	Struct. Design—Arch. 22	3	(0,6)
Military Science 7	3.5	(2,3)	Military Science 8	3.5	(2,3
	21			21	

III.—CHEMISTRY

This course is intended to prepare the student to engage in manufacturing operations involving a knowledge of chemistry, or for employment as chemist in commercial, or fertilizer inspection, or food and feeding-stuff inspection laboratories, and for experiment station or U. S. Government service. A student who has satisfactorily completed this course will also be well equipped to teach elementary chemistry, and to pursue advanced work in chemistry.

The course is fixed for the first two years, freshman and sophomore, and for the first semester of the junior year. Elections are allowed to make up the required 21.5 credits hours, in the second semester of the junior year, and in both semesters of the senior year, which give the student an opportunity to pursue the subject in the direction of chemical engineering, organic and physical chemistry, analytical and sanitary chemistry. The great advances in all branches of chemistry have made some specialization necessary, whether the student expects after graduation to enter any one of the various lines of work open to one who has had a thorough course in chemistry, or to pursue post graduate work. The opportunity for specialization in this course should be both attractive and profitable, whether the student expects to be a chemist, or desires to use his training and knowledge of chemistry in any of the many lines of work in which such training and knowledge are highly desirable, if not, indeed, indispensable.

In this course the student is well grounded in English, German, mathematics, physics mineralogy, and biology, as well as in general, organic, physical, and analytical chemistry, and is besides given an opportunity to specialize as above indicated.

COURSE III.—CHEMISTRY.

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 3	5	(5,0)	Mathematics 4	5	(5,0)
English 1	3	(3,0)	English 2	3	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Chemistry. 1a	5	(3,4)	Chemistry 2a	5	(3,4)
Biology 1	3	(2,2)	Biology 2	3	(2,2)
Drawing 1	1	(0,2)	Drawing 8	1	(0,2)
Mil. Science 1	1.5	(0,3)	Mil. Science 2	1.5	(0,3)
	21.5			21.5	

SOPHOMORE YEAR

Anal. Math. 5	4	(4,0)	Calculus 6	4	(4,0)
English 3	3	(3,0)	English 4	3	(3,0)
Organic Chem. 5	3	(2,2)	Organic Chem. 6	3	(2,2)
Qual. Anal. 3	5	(0,10)	Quant. Anal. 4	5	(0,10)
German 1	2	(2,0)	German 2	2	(2,0)
Physics 3	3	(2,2)	Physics 4	3	(2,2)
Mil Science 3	1.5	(0,3)	Mil. Science 4	1.5	(0,3)
	21.5			21.5	

JUNIOR YEAR

Calculus 7	3	(3,0)	English 6	2	(2,0)
English 5	2	(2,0)	Phys. Chemistry 8	5	(3,4)
Phys. Chemistry 7	5	(3,4)	Mineralogy 8	3	(2,2)
Quant. Anal. 9	2	(0,4)	Mil. Science 6	3.5	(2,3)
Organic Chem. 11	3	(2,2)	Electives	8.	
Mineralogy 7	3	(2,2)			
Mil. Science 5	3.5	(2,3)		21.5	
	21.5				

ELECTIVES—

Organic Chem. 12	3	(2,2)
Metallurgy 16	4	(4,0)
Mechanical Eng. 4	4	(3,2)
Gas & Fuel Anal. 10	1	(0,2)

SENIOR YEAR

Economics—Econ. 1	2	(2,0)	Sociology—Econ. 2	2	(2,0)
History of Chem. 17	2	(2,0)	Stoichiometry 18	2	(2,0)
Inorganic Chem. 21	2	(2,0)	Inorganic Chem. 22	2	(2,0)
Colloid Chemistry 19	2	(2,0)	Colloid Chemistry 20	2	(2,0)
Technical Anal. 23	3	(0,6)	Thesis 24	4	(0,8)
Mil. Science 7	3.5	(2,3)	Mil. Science 8	3.5	(2,3)
Electives	7.		Electives	6.	
	21.5			21.5	

Senior Electives

Mechanical Engineering 11	4	(3,2)	Selected topics in Chem. 26	4	(4,0)
Chemical Geology 5	2	(2,0)	Advanced Lab. Practice 28	2.4	(0,4,8)
Bacteriology 1	4	(2,4)	Bacteriology 4	4	(2,4)
Electrical Eng. 7	3	(2,2)			
Technical Anal. 23	1	(0,2)			

V.—CIVIL ENGINEERING

This course is intended to prepare young men for entrance upon professional practice in some of the many branches of civil engineering, and also to meet the needs of those who, having been engaged in engineering work without a course of instruction, desire to equip themselves for more successful competition with those who have had such instruction.

In connection with the technical studies, liberal training is given in English, history, economics, pure mathematics, and the physical sciences. The course will also be found to embrace a considerable amount of drawing, shop work, and short courses in electrical engineering and mechanical engineering.

The distinctive work pursued by students in this course includes the field and office work of surveying and leveling; topographic surveying and drafting; the location and construction of railroads and highways, and the bridges and other structures in connection therewith; involving investigation as to the strength of the materials of construction and the theories involved in the use thereof; masonry construction; foundations on land and under water; a particular study of highway engineering, including a laboratory course covering all the standard tests of highway material, both bituminous and non-bituminous; municipal and sanitary engineering, including water-supply, sewerage and drainage; and a brief study of engineering law including contracts and specifications. Actual design, as well as analytic investigation, is given in all cases.

COURSE V.—CIVIL ENGINEERING

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 3	5	(5,0)	Mathematics 4	5	(5,0)
English 1	3	(3,0)	English 2	3	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Physics 1	3	(2,2)	Physics 2	3	(2,2)
Shop 1, 17	2	(0,4)	Shop 2, 18	2	(0,4)
Drawing 5, 9	2	(0,4)	Drawing 6, 10	2	(0,4)
Military Sicence 1	1.5	(0,3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SOPHOMORE YEAR

Analytics Math. 5	4	(4,0)	Calculus—Math. 6	4	(4,0)
English 3	3	(3,0)	English 4	3	(3,0)
Chemistry 1	3	(2,2)	Chemistry 2	3	(2,2)
Physics 5, 7	4	(3,2)	Physics 6, 8	4	(3,2)
Surveying—C. E. 1	4	(2,4)	Surveying—C. E. 2	4	(2,4)
Descriptive Geom.—Draw. 13	1	(0,2)	Drawing 16	1	(0,2)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0,3)
	20.5			20.5	

JUNIOR YEAR

Calculus—Math. 7	3	(3,0)	Mechanical Engr.—M. E. 4	4	(3,2)
English 5	2	(2,0)	English 6	2	(2,0)
Mechanics—M. E. 3	3	(3,0)	Graphic Statics—C. E. 12	2	(1,2)
Geology 3	2	(2,0)	Str. Materials—C. E. 10	3	(3,0)
R. R. Location—C. E. 7	2	(0,4)	R. R. Location—C. E. 8	2	(0,4)
R. R. Curves—C. E. 5	3	(3,0)	Design.—C. E. 14	2	(0,4)
Shop 15	1.5	(0,3)	Astronomy—Physics 14	2	(2,0)
Military Science 5	3.5	(2,3)	Military Science 6	3.5	(2,3)
	20			20.5	

SENIOR YEAR

Economics—Econ. 1	2	(2,0)	Sociology—Econ. 2	2	(2,0)
Masonry—C. E. 21	2	(2,0)	Water Supply—C. E. 24	3	(3,0)
Roads—C. E. 23	3	(3,0)	Sewerage—C. E. 26	3	(3,0)
Hydraulics—C. E. 17	2	(2,0)	Eng. Relations—C. E. 28	1	(1,0)
Electrical Eng.—E. E. 7	3	(2,2)	Bridge Design—C. E. 16	3	(2,2)
Mechanical Eng.—M. E. 9	4	(3,2)	Eng. Investigations—C. E. 30	2	(0,4)
Road Materials—C. E. 31	1.5	(0,3)	Road Materials—C. E. 32	1.5	(0,3)
Military Science 7	3.5	(2,3)	Thesis—C. E. 34	1	(0,2)
			Military Science 8	3.5	(2,3)
	21			20	

VI.—ELECTRICAL ENGINEERING

Electrical engineering is developing so rapidly and is being applied in such widely different fields that it is impossible for any college course to cover it adequately. There are, however, certain fundamental laws which underlie all the important applications of electricity. In the careful study of these laws and a few of the more fundamental applications, this course attempts to lay the foundation on which the student may rapidly build his professional career in any branch of electrical engineering.

The course includes the study of those subjects which form a necessary foundation for the study of electrical theory and practice; sufficient drawing and shop work to develop the co-ordination between mind and hand, and at the same time give the student some idea of the possibilities of engineering materials; and other subjects which broaden his intellectual growth. He is encouraged to take an interest in public affairs, to give time to more extensive and diversified reading, and to enter into various student activities.

COURSE VI.—ELECTRICAL ENIGNEERING

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 3	5	(5.0)	Mathematics 4	5	(5,0)
English 1	3	(3,0)	English 2	3	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Physics 1	3	(2,2)	Physics 2	3	(2,2)
Shop 1, 17	2	(0,4)	Shop 2, 18	2	(0,4)
Drawing 5, 9	2	(0,4)	Drawing 6, 10	2	(0,4)
Military Science 1	1.5	(0.3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SOPHOMORE YEAR

Analytics—Math. 5	4	(4,0)	Calculus—Math. 6	4	(4,0)
English 3	3	(3,0)	English 4	3	(3,0)
Chemistry 1	3	(2,2)	Chemistry 2	3	(2,2)
Physics 5, 7	4	(3,2)	Physics 6, 8	4	(3,2)
Surveying—C. E. 3	2	(1,2)	Surveying—C. E. 4	2	(1,2)
Shop 7, 21	2	(0,4)	Shop 8, 22	2	(0,4)
Descriptive Geom.—Draw. 13	1	(0,2)	Drawing 14	1	(0,2)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0,3)
	20.5			20.5	

JUNIOR YEAR

English 5	2	(2,0)	Mechanical Engr.—M. E. 4	4	(3,2)
Mechanics—M. E. 1	3	(3,0)	English 6	2	(2,0)
Calculus—Math. 7	3	(3,0)	Mechanics—M. E. 2	3	(3,0)
Electrical Egr. E. E. 1	4.5	(3,3)	Electrical Engr.—E. E. 2	4.5	(3,3)
Design—Drawing 17	1.5	(0,3)	Design—Drawing 18	1.5	(0,3)
Shop 13	2.5	(0,5)	Shop 14	1.5	(0,3)
Military Science 5	3.5	(2,3)	Military Science 6	3.5	(2,3)
	20			20	

SENIOR YEAR

Economics—Econ. 1	2	(2,0)	Sociology—Econ. 2	2	(2,0)
Str. Materials—C. E. 19	3	(3,0)	Hydraulics—C. E. 18	2	(2,0)
Electrical Engr. E. E. 3	7	(5,4)	Electrical Engr.—E. E. 4	7.5	(5,5)
Mechanical Engr.—M. E. 7	4	(3,2)	Mechanical Engr.—M. E. 8	4	(3,2)
Design—M. E. 13	1	(0,2)	Design—E. E. 10	1	(0,2)
Military Science 7	3.5	(2,3)	Military Science 8	3.5	(2,3)
	20.5			20.5	

VII.—MECHANICAL ENGINEERING

The course in mechanical engineering is designed to give the graduate as broad a training as possible and at the same time to fit him for some specific type of work.

It embraces practically all forms of engineering which have for their objects the application of the forces of nature to the accomplishment of the processes of industry. The course is designed to give an intimate knowledge of the materials used in engineering, the laws of mechanics and the characteristics of various types of machinery.

The shop courses embrace wood work, forge work, foundry and machine work. The purpose of this instruction is not to turn out skilled workmen but to train those faculties of mind which can best be reached through the work of the hand, and at the same time, give the student a clear knowledge of the characteristics and possibilities of the materials used in engineering.

Considerable time is given to the study of the laws of the physical sciences, in such subjects as physics, chemistry, mechanics electricity and magnetism and thermodynamics.

During the fourth year stress is laid on the application of the fundamental principles already covered so that the graduate may be able to design or manage those types of machines which ordinarily come under the supervision of the mechanical engineer.

The mechanical engineer should have a good liberal education, so in addition to the regular technical work comprehensive training is given in English, history, economics, civics and related subjects.

COURSE VII.—MECHANICAL ENGINEERING

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 3	5	(5,0)	Mathematics 4	5	(5,0)
English 1	3	(3,0)	English 2	2	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Physics 1	3	(2,2)	Physics 2	3	(2,2)
Shop 1, 17	2	(0,4)	Shop 2, 18	2	(0,4)
Drawing 5, 9	2	(0,4)	Drawing 6, 10	2	(0,4)
Military Science 1	1.5	(0,3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SOPHOMORE YEAR

Analytics—Math. 5	4	(4,0)	Calculus—Math. 6	4	(4,0)
English 3	3	(3,0)	English 4	3	(3,0)
Chemistry 1	3	(2,2)	Chemistry 2	3	(2,2)
Physics 5, 7.	4	(3,2)	Physics 6, 8	4	(3,2)
Surveying—C. E. 3	2	(1,2)	Surveying—C. E. 4	2	(1,2)
Shop 7, 21	2	(0,4)	Shop 8, 22	2	(0,4)
Descriptive Geom.—Draw. 13	1	(0,2)	Drawing 14	1	(0,2)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0,3)
	20.5			20.5	

JUNIOR YEAR

Calculus—Math. 7	3	(3,0)	Mechanical Engr.—M. E. 4	4	(3,2)
English 5	2	(2,0)	English 6	2	(2,0)
Mechanics—M. E. 1	3	(3,0)	Mechanics—M. E. 2	3	(3,0)
Electrical Engr. E. E. 1	4.5	(3,3)	Electrical Engr.—E. E. 2	4.5	(3,3)
Design—Drawing 17	1.5	(0,3)	Design—Drawing 18	1.5	(0,3)
Shop 13	2.5	(0,5)	Shop 14	1.5	(0,3)
Military Science 5	3.5	(2,3)	Military Science 6	3.5	(2,3)
	20			20	

SENIOR YEAR

Economics—Econ. 1	2	(2,0)	Sociology—Econ. 2	2	(2,0)
Str. Materials—C. E. 19	3	(3,0)	Hydraulics—C. E. 18	2	(2,0)
Mechanical Engr.—M. E. 5	7	(5,4)	Mechanical Engr.—M. E. 6	7.5	(5,5)
Electrical Engr. E. E. 5	4	(3,2)	Electrical Engr.—E. E. 6	4	(3,2)
Design—E. E. 9	1	(0,2)	Design—M. E. 14	1	(0,2)
Military Science 7	3.5	(2,3)	Military Science 8	3.5	(2,3)
	20.5			20	

VIII.—TEXTILE INDUSTRY

The course in Textile Industry is designed to give the student sound training, both theoretical and practical, in the sciences upon which manufacturing processes are based. The curriculum of the course recognizes that in a profession of so many aspects a broad general education, and a thorough knowledge of the underlying principles are necessary for its successful practice.

The first year of the course is the same as that of the other engineering courses offered. The study of textile subjects begins with the second year, and more time is given to these subjects in the Junior and Senior years. The practical work is carried on for the purpose of developing in the student habits of accurate observation, and some skill in manipulation, supplementing the theoretical work. In this work special consideration is given to economy of time, precision of results, and attention to details. as well as to methods of fundamental importance.

This course does not presume to fit one for an executive position in a mill, but the graduate is in possession of such information, and has acquired such knowledge and experience that he may look forward to a successful career provided he has the necessary energy, application, and tact, and a willingness to begin at the bottom.

COURSE VIII.—TEXTILE INDUSTRY

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 3	5	(5,0)	Mathematics 4	5	(5,0)
English 1	3	(3,0)	English 2	3	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Physics 1	3	(2,2)	Physics 2	3	(2,2)
Shop 1, 17	2	(0,4)	Shop 2, 18	2	(0,4)
Drawing 5, 9	2	(0,4)	Drawing 6, 10	2	(0,4)
Military Science 1	1.5	(0.3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SOPHOMORE YEAR

Analytics—Math. 5	4	(4.0)	Calculus—Math. 6	4	(4,0)
English 3	3	(3,0)	English 4	3	(3,0)
Chemistry 1	3	(2,2)	Chemistry 2	3	(2,2)
Surveying—C. E. 3	2	(1,2)	Surveying—C. E. 4	2	(1,2)
Descriptive Geom.—Drawing 3	1	(0,2)	Drawing 14	1	(0,2)
Pickers—Yarn Mfg. 1.	3	(2,2)	Cards and Drw Frames Yarn, Mfg 2	3	(2,2)
Fab. Construction—Tech. Fab. 1	2	(2,0)	Design—Tech. Fab 2	2	(2,0)
Weaving—Tech. Fab. 11	1	(0,2)	Loom Fixing—Tech. Fab. 12	1	(0,2)
Military Science 3	1.5	(0,3)	Military Science 4	1.5	(0,3)
	20.5			20.5	

JUNIOR YEAR

Calculus—Math. 7	3	(3,0)	Mechanical Engineering 4	4	(3,2)
English 5	2	(2,0)	English 6	2	(2,0)
Mechanics—M. E. 1	3	(3,0)	Mechanics—M. E. 2	3	(3,0)
Roving Frames—Yarn Mfg. 3	3	(2,2)	Spinning—Yarn Mfg. 4	3	(2,2)
Dobby Design—Tech. Fab. 3	1	(0,2)			
Fab. Analysis—Tech. Fab. 5	1	(0,2)	Fab. Analysis—Tech. Fab. 6	1	(0,2)
Weaving—Tech. Fab. 13	1	(0,2)	Weaving—Tech. Fab. 14	1	(0,2)
Org. Chem.—Textile Chem. 1	3	(2,2)	Org. Chem.—Text. Chem. 2	3	(2,2)
Military Science 4	3.5	(2,3)	Military Science 5	3.5	(2,3)
	20.5			20.5	

SENIOR YEAR

Economics—Econ. 1	2	(2,0)	Sociology—Econ. 2	2	(2,0)
Electrical Engineering 7	3	(2,2)	Combers—Yarn Mfg. 6	2	(1,2)
Mechanical Engineering 11	4	(3,2)	Mill Econom.—Yarn Mfg. 8	1	(1,0)
Spinning—Yarn Mfg. 5	3	(2,2)	Jacq. Design—Tech Fab. 8	4	(4,0)
Designing and Prep. Tech. Fab. 7	2	(2,0)	Weave Methods—Tech, Fab. 10	3	(3,0)
			Weaving—Tech. Fab. 16	2	(0,4)
			Knitting—Tech, Fab. 18	1	(0,2)
Applied Chem.—Textile Chem. 3	3	(2,2)	Dyeing—Text. Chem. 4	2	(0,4)
Military Science 7	3.5	(2,3)	Military Science 8	3.5	(2,3)
	20.5			20.5	

VIII(a).—INDUSTRIAL EDUCATION

By the enactment of the Smith-Hughes law for the promotion of vocational education, Congress has provided funds for encouraging and assisting in the development of instruction throughout the country in agriculture, home economics, and trades and industries.

This course has for its purpose the preparation of young men for positions of usefulness and responsibility in the trades and industries of the state. The course includes instruction in the fundamental principles of education, of engineering, and of the textile industry.

The prime purpose of the course is to prepare for positions as teachers of trade and industrial subjects, or as "service man" in a manufacturing establishment. As the textile industry is the dominant one in the state that industry is given special prominence. The course is essentially a combination of instruction in the textile industry and the training of industrial teachers.

COURSE VIII(a).—INDUSTRIAL EDUCATION

FRESHMAN and SOPHOMORE subjects same as Course VIII.

JUNIOR YEAR

First Semester			Second Semester		
Calculus—Math. 7	3	(3,0)	Mechanical Engineering 4	4	(3,2)
English 5		(2,0)	English 6	2	(2,0)
Industrial Education 5	3	(3,0)	Industrial Education 8	3	(2,2)
Roving Frames—Yarn Mfg. 3	3	(2,2)	Spinning—Yarn Mfg. 4	3	(2,2)
Dobby Design—Tech. Fab. 3	1	(0,2)			
Fab. Analysis—Tech. Fab. 5	1	(0,2)	Fab. Analysis—Tech. Fab. 6	1	(0,2)
Weaving—Tech. Fab. 13	1	(0,2)	Weaving—Tech. Fab. 14	1	(0,2)
Org. Chemistry—Text. Chem. 1	3	(2,2)	Org. Chem.—Text. Chem. 2	3	(2,2)
Military Science 4	3.5	(2,3)	Military Science 5	3.5	(2,3)
	20.5			20.5	

SENIOR YEAR

First Semester			Second Semester		
Economics—Econ. 1	2	(2,0)	Sociology—Econ. 2	2	(2,0)
Elec. Engr.—E. E. 7	3	(2,2)	Ind. Education—Ed. 10	4	(3,2)
Ind. Education—Ed. 7	4	(3,2)	Ind. Education—Ed. 12	4	(4,0)
Military Science 7	3.5	(2,3)	Military Science 8	3.5	(2,3)
Electives	8		Electives	7	
	20.5			20.5	

Students taking the course in Industrial Education will be permitted to elect in the Senior Year under the direction of the Director of the Textile Department such supplies, as will best fit them for the field of industrial education in which they are most interested.

COURSE IX.—GENERAL SCIENCE

The General Science course is planned to give training in the fundamental sciences and in the cultural subjects. Its chief purpose is to provide for a liberal education by giving a broad view of science and training in scientific methods and, in addition, a liberal course in such cultural subjects as English, history, economics, sociology, mathematics, and the Modern Languages, such as will fit the student for efficient citizenship.

The course is especially designed for those students who prefer to complete part or all of their college education before deciding definitely on their life work, for those who wish to study medicine, for those who wish to prepare for advanced study in the sciences or to become **teachers.**

Students entering this course are given two years in which to find their aptitudes before choosing their major subjects. Much latitude is given for the choice of both major and minor subjects.

FRESHMAN YEAR

First Semester			Second Semester		
Mathematics 1	3	(3,0)	Mathematics 2	3	(3,0)
English 1	3	(3,0)	English 2	3	(3,0)
History 1	3	(3,0)	History 2	3	(3,0)
Chemistry 1a	5	(3,4)	Chemistry 2a	5	(3,4)
Biology—Botany 1	3	(2,2)	Biology—Botany 2	3	(2,2)
Drawing 1	1	(0,2)	Drawing 8,	1	(0,2)
Military Science 1	1.5	(0,3)	Military Science 2	1.5	(0,3)
	19.5			19.5	

SOPHOMORE YEAR

English 3	3	(3,0)	English 4	3	(3,0)
Physics 1	3	(2,2)	Physics 2	3	(2,2)
Geology 1	3	(3,0)	Geology 2	1	(0,2)
Morphology—Botany 5	3	(2,2)	Zoology 2	4	(3,2)
Modern Language	3	(3,0)	Modern Language	3	(3,0)
Electives	4	( )	Electives	4	( )
Military Science 3	1.5	(0,3)	Military Sicence 4	1.5	(0,3)
	20.5			19.5	

JUNIOR YEAR

English 5	2	(2,0)	English 6	2	(2,0)
Physics 5, 7	4	( )	Physics 6, 8	4	( )
Phychology 3	3,5	(2,3)	Physchology 4	3.5	(2,3)
Military Science 5	3.5	(2,3)	Military Science 6	3.5	(2,3)
Electives	4-6		Electives	4-6	( )

SENIOR YEAR

English 7	2	(2,0)	English 8	2	(2,0)
Economics—Econ. 1	2	(2,0)	Sociology—Econ. 2	2	(2,0)
Military Science 7	3.5	(2,3)	Military Science 8	3.5	(2,3)
Electives	11-12		Electives	11-12	

In addition to the prescribed work each student is required to select from the groups of elective subjects a sufficient amount of work to give a total of not less than 18 and not more than 20 credit hours each semester.

At the beginning of the Junior year, the student must designate some major subject.

It may be possible with the consent of the head of the department concerned to elect courses outside of the ones listed in the following groups of courses.

In order to secure credit for a course, the entire course must be satisfactorily completed. No course may be elected unless all the prerequisite work has been completed.

ELECTIVES.

First Semester			Second Semester		
Group I					
Analytics—Math. 5	4	(4,0)	Calculus Math. 6	4	(4,0)
Organic Chemistry 5	3	(2,2)	Organic Chemistry 6	3	(2,2)
Quant. Analysis 3a	1	(0,2)	Quant. Analysis 4	1	(0,2)
Calculus—Math. 7	3	(3,0)	Meteorology—Geol. 10	2	(2,0)
Physics	4	( )	Physics	4	( )
Mineralogy—Geol. 7	3	(2,2)	Mineralogy 8—Geol. 8	3	(2,2)
Chemistry	4	( )	Chemistry	4	( )
Bacteriology 1	4	(2,4)	Bacteriology 4	4	(2,4)
Forestry—Botany 3	2	(2,0)	Mechanical Engr.—M. E. 4	4	(3,2)
Electrical Engr.E. E. 1	4.5	(3,3)	Electrical Engr.—E. E. 2	4.5	(3,3)
Mechanics—M. E. 1	3	(3,0)	Mechanics—M. E. 2	3	(3,0)
Surveying—C. E. 1	4	(2,4)	Surveying—C. E. 2	4	(2,4)
Industrial Arts—Shop 9	1	(0,2)	Plant Phys. Botany 6	4	(2,4)
Industrial Arts—Shop 23	1	(0,2)	Industrial Arts—Shop 24	1	(0,2)
Industrial Arts—Shop 25	1	(0,2)	Industrial Arts—Shop 26	1	(0,2)
Genetics—Agronomy 5	3	(2,2)			
Entomolomy 3	3	(2,2)			
Drawing	1	(0,2)	Drawing	1	(0,2)
Group II.					
Marketing—Agronomy 17	3	(2,2)	Economics	3	( )
Business Law—Eng. 11	2	(2,0)	F Management-Agron. 16	3	(2,2)
Farm Management—Agronomy 3	3	(2,2)	F. Equipment-Agron. 14	3	(2,2)
Rural Sociology 1	3	(3,0)	Rural Sociology 2	3	(2,2)
Bible 1	3	(3,0)			
Group III					
Spanish 1	3	(3,0)	Spanish 2	3	(3,0)
Spanish 3	3	(3,0)	Spanish 4	3	(3,0)
German 1	3	(3,0)	German 2	3	(3,0)
German 3	3	(3,0)	German 4	3	(3,0)
English	3	(3,0)	English	3	(3,0)
Group IV					
Introduction to Education 9	3	(3,0)	Educ. Phychology 14	3	(2,2)
Prin. of Teaching 11	4	(3,2)	Sp. Methods in Teaching High School Subjects 16	4	(3,2)
			Practice Teaching 18	4	( )

COURSE XIII.—PRE-MEDICAL

In order to meet the minimum requirements for entrance into a standard medical college it is necessary that the student graduate from high school with not less than fifteen standard units, and have to his credit two years of college work. This course meets the requirements as to biology, chemistry, physics, language and other subjects. If it is desired to spend more than two year in preparation for the study of medicine the student is advised to take the Science Course.

FIRST YEAR

First Semester	Credits		Second Semester		
Machematics 1	3	(3,0)	Mathematics 1	3	(3,0)
English 1	3	(3,0)	English 2	3	(3,0)
Biology—Botany 1	3	(2,2)	Biology—Botany 2	3	(2,2)
Chemistry 1a	5	(3,4)	Chemistry 2a	5	(3,4)
Language	3	(3,0)	Language	3	(3,0)
Drawing 1	1	(0,2)	Drawing 8	1	(0,2)
Drill 1	1.5	(0,3)	Drill 1	1.5	(0,3)

SECOND YEAR

Chemistry 7	3	(2,2)	Chemistry 8	3	(2,2)
Phychology 3	2	(2,0)	Phychology 4	2	(2,0)
Physics 4	4	( )	Physics	4	( )
English 3	3	(3,0)	English 4	3	(3,0)
Language	3	(3,0)	Language	3	(3,0)
Botany 5	3	(2,2)	Zoology 2	4	(3,2)
Drill 2	1.5	(0.3)	Drill	1.5	(0,3)

THE SHORT COURSES

COURSE XII—AGRICULTURE

Normally, this course extends through two sessions. The subjects are selected from the regular programs of study and are aranged to suit the needs of the class. This program should be of great value to the young man who desires to spend not more than two years in College.

COURSE XI—TEXTILE INDUSTRY.

This two-year course is for the accomodation of young men who have only two years to devote to college work. The subjects are chosen from the regular college course in Textile Engineering and the schedules are made up under the supervision of the Director of the Textile Department. To enter the course the applicant must have had at least one year's experience in some cotton mill, as well as meet the general requirements for admission.

TEN WEEKS COURSES IN AGRICULTURE

These are intensely practical courses open only to men and boys with farm experience. The work will begin immediately after the Christmas holidays, each week being devoted to the study of one of several phases of Agriculture. It will be possible to spend from one to ten weeks. The courses to be offered in 1926 are—Bee Keeping, Dairy Husbandry, Swine Husbandry, Poultry Husbandry, Farm Cost Accounting, Soil Fertility, Cotton Growing Under Boll Weevil Conditions, Fruit Growing, Truck Growing, Farm Machinery.

There are no scholastic requirements for admission to these courses. They are open to any farm boy or man.

DESCRIPTION OF SUBJECTS

For convenience of reference all subjects are grouped under general heads. In the description of subjects, the first line gives (a) general classification and number, (b) specific title, (c) the semester taught, and (d) the names of the instructors. The second line gives the class and course in which the subject occurs. The figures in parentheses indicate the number of hours a week, theory and practice, respectively devoted to the subject.

Odd numbers are assigned to subjects taught during the first semester and even numbers to those taught during the second semester. A subject taught throughout the session is given both an odd and an even number.

AGRONOMY

***Professor Blackwell**

Associate Professor McAlister

Assistant Professor Collings

Assistant Professor Robinson

AGRONOMY 1.—Cotton and Corn—Semester 1 (Collings.)
Sophmore I: (3 and 2)

A detailed course dealing with the history, origin, botanical characteristics, physiology, ecology, varieties, breeding, soil adaptations, fertilizer requirements, and the cultural methods of cotton and corn. Laboratory largely devoted to field studies of these crops. Recitations, assigned reading, problems.

Text-book: "Field crops for the Cotton Belt."—Morgan. "The Corn Crops."—Montgomery.

AGRONOMY 2—Farm Machinery—Semester 2. ...(McAlister)
Somphmore I: (3 and 2)

A study of the construction, adjustment and operation of the latest improved machinery for the farm including internal combustion engines. Laboratory work consists of a study of the various machines together with rope work, belt lacing and other farm practices.

Text-book: "Equipment for the Farm and Farmstead."—Ramsower.

AGRONOMY 3.—Farm Management—Semester 1. (Robinson)
Junior I: (2 and 2)

The business of farming. A survey of the business aspects of farm operations. The relation of capital, choice of land, farm equipment, farm layout, cropping systems, specific agricultural industries. The correlation and application of problems. Recitations, assigned, readings, problems, demonstrations.

Text-book: "Farm Management".—Warren.

AGRONOMY 4.—Soils—Semester 2. (Collings)
Junior I: (3 and 2)

A fundamental course in soils. It is intended to cover the basic principles of soil physics, soil fertility, soil biology, and soil management. It deals with the soil as a reservoir for water, as a medium for root development, as a source of nutrients, and as a home of organisms.

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*On Leave.

A laboratory course is given which deals almost exclusively with the physical properties of the soil.

Text-book: "The Nature and Properties of Soils."—Lyon, Buckman.

AGRONOMY 5.—Genetics—Semester 1. (Blackwell)
Senior I, IX: Elective: (2 and 2)

A course dealing with the laws of heredity and equally applicable to plants or animals.

Text-book: "Genetics"—Jones.

AGRONOMY 6—Plant Breeding—Semester 2. (Blackwell)
Seniors I. Elective: (2 and 2)
Prerequisite: Agronomy 5.

A study of methods of improving field crops by breeding. All of the common field crops are included and especial emphasis is placed on cotton, corn, tobacco, small grains and forage plants.

Text-book: "Breeding Crop Plants"—Hays and Garber.

AGRONOMY 7.—Forage Crops.—Semester 1. (Collings)
Senior I: (2 and 2)

A course dealing with the characteristics of the various forage crops, with special emphasis on those grown in this state. These crops are studied with special reference to their adaptations, growing, harvesting composition, value and uses, and also with reference to their place in our cropping system.

Text-book: "Forage Crops and Their Culture"—Piper.

AGRONOMY 9, 10—Crops—Semester 1 and 2. (Blackwell)
Senior I. Elective: (2 and 2)
Prerequisite: Agronomy 1, 2, 3, and 4.

An advanced course in crops dealing with the more important cash crops and small grain crops of the southeastern part of the U. S.

Text-book: "The Small Grains"—Carleton. Other books and bulletins will be used as references.

AGRONOMY 12.—Fertility and Fertilizers—Semester 2. (Collings)
Senior I: (2 and 2)
Prerequisite: Agronomy 4.

A course dealing with the history and development of theories of soil fertility in their relation to present day problems in soil fertility. A study is made of the sources, composition, value, and uses of fertilizers and manures and theories of soil fertility.

Text-book: "Manures and Fertilizers"—Wheeler.

Text-book: "Manures and Fertilizers"—Wheeler; "Soil Management"—Bear.

AGRONOMY 13—Agricultural Surveying and Drainage—Semester 1. (McAlister)

Seniors I. Elective: (2 and 2)

Surveying small areas with tape, level and rod, computing areas, topographic mapping. Design and study of drainage systems. Prevention of soil erosion with special emphasis on terracing.

Text-book: "Land Drainage"—Powers and Teeter.

AGRONOMY 14—Farm Building and Equipment—Semester 2.(McAlister)

Senior I. Elective: (2 and 2)

Lectures and laboratory exercises on the planning and arrangement of farm buildings. Special study of heating, lighting, water supply and sewage disposal systems for the farm homes.

AGRONOMY 15.—Farm Shop—Semester 1. (McAlister)

Senior I. Elective: (1 and 2)

This course is designed especially for Agricultural Education seniors who are prospective teachers of this subject in high schools. Special emphasis is placed on farm wood work and how to make simple repairs.

AGRONOMY 16.—Farm Management—Semester 2. (Robinson)

Senior I. Elective : (2 and 2)

Prerequisite: Agronomy 3.

This is a course in which special problems with field crops are considered from the business standpoint. Calendar of operations, cost of production, analysis of farm businesses, and profits are given special attention.

Text-book: "Farm Management"—Adams.

AGRONOMY 17.—Marketing—Semester 1. (Robinson)

Senior I. Elective: (2 and 2)

A study of the fundamental principles that apply to the marketing of Agricultural products. Special attention is given to assembling, grading, transportation, storage, financing, and co-operative marketing of the important farm products in this state.

Text-book: "Marketing Agricultural Products"—Hibbard.

AGRONOMY 103.—Crops Semester 1 (Robinson)

Two-Year Agr. XII: (3 and 2)

A general elementary course in Agronomy for two year students. The course will deal with the important crops of this region including a study of their cultivation, soil adaptation, fertilizer requirements, and the latest machinery in their production and handling.

Text-book: **"Field Crops for the Cotton Belt"—Morgan.**

AGRONOMY 104.—Soils—Semester 2. (Collings)
Two-Year Agr. XII: (3 and 2)

A general course in soils for two year students. The course will deal with general soil problems and specific problems for South Carolina with special emphasis on handling, fertilization, maintaining and improving the productivity. Fertilizers and manures will be given in connection with this course.

AGRONOMY 105.—Farm Management—Semester 1. (Robinson)
Two-Year Agr. XII: (2 and 2)

This course deals with the business aspects of farm operations. Farm bookkeeping and cost accounting constitute an important part of the course. In a practical way the considerations of size of farm capital, choice of land, farm equipment, farm layout, cropping systems, marketing and labor income will also be dealt with.

Text-book:—"Farm Management"—Spillman.

Division Rooms and Equipment.

The Division of Agronomy occupies six rooms in Agricultural Hall and the large flat building below the Dairy Building, where the farm machinery is stored and where farm machinery work is given.

The Division offices are all on the second floor of the Agricultural Hall. The lecture room and farm crops laboratory are also on this floor. The farm crops laboratory is well supplied with equiqment and material for teaching the characteristics of the various crops and for a study of market classes and grades of the grain crops. Much of our laboratory work is conducted in the fields with the growing crops.

The soils laboratory is located in room No. 1, in the basement of Agricultural Hall, and is well supplied with modern equipment for teaching soil physics

The farm machinery laboratory work is given in the large one story building, known as Farm Machinery Hall. This building has a concrete floor and is well equipped with the latest and best machinery, tractors, gas engines, farm lighting plants, and land drainage equipment.

AGRICULTURAL ECONOMICS

Professor Mills.

AGRICULTURAL ECONOMICS 1.—General Agricultural Economics
Semester 1, (Mills).
Senior 1, Elective: (2 and 0)

The application of the principles of Economics to Agriculture. The farmer as a business manager, rent, interest, farm wages, taxation, etc., will be studied.

AGRICULTURAL ECONOMICS 2.—Land Economics.—Semester 2. (Mills)
Senior, Elective. (3 and 0)

Land as a factor of agricultural production. Its value and methods of appraisal; renting and leasing; tenancy and ownership, land purchase and settlement as assisted by governments. Other methods of financing farm-purchase.

AGRICULTURAL ECONOMICS 3—Rural Sociology.—Semester 1. (Mills.)
Senior I. Elective: (3 and 0).

Its purpose and methods. The relation of scientific agriculture to the rural community. Rural organization for business, health education, recreation, etc.

AGRICULTURAL ECONOMICS 4.—Rural Sociology.—Semester 2. (Mills).
Senior I.—Elective: (2 and 2).

County and state government as affecting the rural community. National movements with local community organization.

AGRICULTURAL ECONOMICS 5.—Bible.—Semester 2 (Mills).
Senior. Elective: (1 and 0)

The Bible is studied (a) as history, showing the development of the Jewish people and their relations with other nations, (b) as the rule of faith and practice, discussing its peculiar claims for itself, its ethical content, and its influence upon the world.

ANIMAL HUSBANDRY

Professor Starkey

Associate Professor Morgan

ANIMAL HUSBANDRY 2—Types, Breeds, Market Classes and Grades of Farm Animals—Semester 2. (Morgan)

Sophomore I. (3 and 2)

This course is designed to give the student a knowledge of the characteristics and use of the various types of farm animals, the history, methods of improvement, and characteristics of the leading breeds; market demands and market classification of live stock.

Text-book: "Types and Market Classes of Live Stock"—Vaughan. "Types and Breeds of Farm Animals"—Plumb.

ANIMAL HUSBANDRY 3—Principles of Feeding—Semester 1. (Morgan)

Junior I. Elective: (2 and 2)

A study of the composition of feeds, use of feeds, feed requirements and calculation of balanced rations for farm animals; classification and value of feedstuffs.

Text-books: "Feeds and Feeding"—Henry and Morrison. "Principles of Feeding Farm Animals"—Bull.

ANIMAL HUSBANDRY 4—Animal Breeding—Semester 2. (Morgan)

Senior I. Elective: (2 and 2)

Prerequisite: Animal Husbandry 2 and Genetics.

This course is an advanced study in breeding which includes the practical application of the principles of genetics to the breeding of farm animals. The course includes a discussion of the subjects of reproduction, variation, heredity, selections, line breeding, inbreedings, cross breeding, grading and other subjects correlated with the breeding and improvement of farm animals.

Text-book: "The Breeding of Animals."—Mumford.

ANIMAL HUSBANDRY 5—Feeds and Feeding—Semester 1. (Starkey)

Senior I. Elective: (2 and 2)

Prerequisite: Animal Husbandry 3.

A detailed study of the composition, digestibility, use and value of different feedstuffs; an advanced study of digestion, absorption, metabolism, and functions of food nutrients; feed requirements and feeding standards.

Text-book: "Feeds and Feeding"—Henry and Morrison.

ANIMAL HUSBANDRY 6—Beef Production—Semester 2. (Starkey and Morgan).

Senior I. Elective: (2 and 2)

Prerequisite: Animal Hunbandry 2 and 3.

A discussion of the general care and management of beef cattle, including a careful study of feeding and marketing methods. Textbook supplemented by study of station bulletins.

Text-book: "Beef Production"—Mumford.

ANIMAL HUSBANDRY 7—Animal Production—Horses, Mules and Sheep.—Semester 1. (Morgan)

Senior 1. Elective: (2 and 2).

Pre-requisite: Animal Husbandry 2 and 3.

This is a course in the breeding, feeding, care and management of horses and mules and sheep. The course is divided into two distinct units, horse and mule production and sheep production.

Text-books: "Productive Horse Husbandry"—Gray. "Productive Sheep Husbandry"—Coffey.

ANIMAL HUSBANDRY 8—Pork Production—Semester 2. (Starkey and Morgan.)

Senior I. Elective: (2 and 2)

Prerequisite: Animal Hunbandry 2 and 3.

The breeding, feeding and management of commercial and purebred breeding herds. A careful study of approved feeding and breeding methods.

Text-book: "Pork Production"—Smith.

ANIMAL HUSBANDRY 9—Advanced Stock Judging—Semester 1. (Morgan).

Senior I. Elective: (To be determined)

Prerequisite: Animal Husbandry 2.

An advanced course in the judging of breeding and fatstock. Students taking this course will be required to take trips to leading livestock farms and to attend fairs for the purpose of judging and inspection.

Text-book: "Judging Farm Animals"—Plumb.

ANIMAL HUSBANDRY 8a.—Live Stock Judging—Semester 2. (Morgan)

Junior. Elective: (0-2)

A course in live stock judging to prepare students who plan to major in Animal Husbandry for the live stock judging contest at the Southeastern Fair, which is held early in the Senior year. The fundamentals in judging and in giving reasons are taken up in detail.

ARCHITECTURE

Professor Lee

Assistant Professor Allen

Instructor Seigler

ARCHITECTURE 2—Freehand Drawing—Semester 2. (Seigler.)
Freshman II. (0 and 2)
Prerequisite: Drawing 3.

This course covers angular and parallel perspective, the oblique plane, the perspective of circles, sectioning and shading.

The study of pencil technique is stressed for sketching purposes, and charcoal work from the cast is given in order to develop a correct sense of values, form and proportion.

ARCHITECTURE 4—Elements of Architecture—Semester 2. (Allen)
Freshman II. (0 and 2)
Prerequisites: Drawing 3, 11.

A study of classic proportions and design with details of "The Orders" and their application.

Text-book: "The Five Orders of Architecture" from the system of Vignola as arranged by Pierre Esquiez.

ARCHITECTURE 6.—Descriptive Geometry—Semester 2. (Allen)
Freshman II: (0 and 4)
Prerequisites: Drawing 3, 11.

The fundamental problems in descriptive geometry are studied and applied to the solution of problems in architecture. Also problems in the casting of conventional shadows of architectural forms and the theory and practice of architectural perspective are solved.

Text-book: To be selected.

Reference books: McGoodwin's "Shades and Shadows"; Lubschez "Perspective."

ARCHITECTURE 7, 8—History of Architecture—Semesters 1 and 2. (Allen)
Sophomore II: (3 and 0)

Study of historic styles and monuments of architecture, classic, mediaeval and Renaissance. This subject is given by illustrated lectures and text-book. The student is required to do research in the library and to make sketches.

Text-book: Hamlin's "History of Architecture."

ARCHITECTURE 9, 10—Cast Drawing—Semesters 1 and 2 (Siegler).

Sophomore II: (0 and 3)

Prerequisite : Architecture 2.

Thorough drill in drawing groups of simple casts, pencil and charcoal rendering. Study of color in theory and practice. Brief study of anatomy. Sketching from life.

ARCHITECTURE 11, 12—Architectural Design—Semesters 1 and 2. (Allen)

Sophomore II: (0 and 14)

Prerequisites: Architecture 2, 4, 6.

A series of simple problems in design, applying classic proportions to modern buildings; criticisms, sketch problems, Beaux-Arts problems. Rendering in water color and other mediums.

Architectural library reference books and plates.

ARCHITECTURE 13, 14—Cast Drawing—Semesters 1 and 2 (Siegler).

Junior II: (0 and 2)

Prerequisites: Architecture 9, 10.

Advanced work in the drawing of antique sculpture and from life. Any medium may be used in which the student cares to work, such as charcoal, conte, pastel. etc.

ARCHITECTURE 15, 16.—Architectural Design—Semesters 1 and 2. (Allen)

Junior II: (0 and 10).

Prerequisites: Architecture 11 and 12

A series of problems in architectural design. Composition and planning. Sketch problems. Beaux-Arts problems.

Architectural library reference books and plates.

ARCHITECTURE 17, 18.—Building Construction—Semesters 1 and 2. (Lee)

Junior II: (3 and 0)

Prerequisites: Mathematics 5, 6.

Carpentry; study of building materials, their uses and forms; carpenter's, plasterer's and painter's work, details of frame construction, hardware, estimates and specifications; problems in calculation.

Text-books: Kidder's "Building Construction and Superintendence," Part II; Kidder's "Architects' and Builders' Pocket Book."

ARCHITECTURE 19, 20—Architectural Design—Semesters 1 and 2. (Allen)

Senior II. (0 and 11)

Prerequisites: Architecture 16, 17.

Advanced problems in architectural design. Composition, planning, etc., worked up in detail. Eight and ten hour sketch problems. Beaux-Arts problems, Historic ornament.

Architectural library books and plates as references.

ARCHITECTURE 21, 22.—Structural Design—Semesters 1 and 2. (Lee)

Senior II: (0 and 6)

Prerequisites: Architecture 17, 18.

Preparation of complete working drawings and specifications for frame and masonry buildings, detail drawings of the construction with necessary calculations. Steel and reinforced concrete design. Blue printing.

Text-book: Architectural library reference books and plates. Kidder's "Architects' and Builders' Pocket Book."

ARCHITECTURE 23, 24—Building Construction—Semesters 1 and 2. (Lee)

Senior II. (5 and 0)

Prerequisites: Architecture 17, 18.

Masonry; study of foundations, cement, lime, mortars, stone, brick, terra-cotta, details of masonry construction, fireproofing of buildings, reinforced concrete and steel construction, estimates, specifications, superintendence, problems in calculation, contracts, laws, ethics.

Text-books: Kidder's "Building Construction and Superintendence," Part I; Kidder's "Architects' and Builders' Pocket Book," A. I. A. Documents.

ARCHITECTURE 25, 26—Heat and Sanitation—Semesters 1 and 2 (Lee)

Senior II: (2 and 0)

Study of the various systems of heating and ventilating of buildings, together with apparatus used in each, such as boilers, fans, etc.

Illumination of buildings.

Plumbing of buildings, including water and sewerage.

Text-book: Hoffman's "Handbook for Heating and Ventilating Engineers"; Instructor's notes.

Rooms and Equipment

The third floor of the engineering building is devoted entirely to the work in architecture. There are several rooms used for architectural design with drafting tables and lockers; a studio for freehand and cast drawing with casts, models and easels; lecture room equipped with lantern and slides and samples of building materials; library containing a large number of volumes on architectural and allied subjects with many valuable plates and complete files of all important art and architectural magazines; and office for instructors.

The office of the professor of architecture and college architect and the blue printing rooms are on the second floor of this building.

BOTANY AND BACTERIOLOGY

Professor Barre

Associate Professor Aull

Associate Professor Rosenkrans

Instructor Aull

BOTANY 1, 2.—Biology—Semesters (1 and 2) (Mrs. Aull)
Freshman I, III, IX, XIII: (2 and 2)

The structure and functions of the various parts of the higher seed plants, and the broad principles of metabolism, growth, and reproduction are first taken up in detail, followed by a study of the lower organisms.

The student is made familiar with the application of biological laws; and descriptions, life histories and the adaptation of representative organisms are considered. The practical work will consist of laboratory and field studies illustrating the more important phases of the theoretical work.

Text-book: "Botany with Agricultural Application."—Martin.

BOTANY 3—Elements of Forestry—Semester 1. (Rosenkrans)
Sophomore I, IX: (2 and 0)

A lecture course dealing with the general principles of forestry, together with the practical methods applied in lumbering, forest propagation, and conservation.

Text-book: "Elements of Forestry."—Moon and Brown.

BOTANY 5—Morphology of the Higher Plants—Semester 1 (Rosenkrans)
Sophomore I, IX, XIII: (2 and 2)

This course considers the general form and structure of the higher plants, and the organs and tissues which compose them. It also establishes the relationships of the various organs. A study is made of the development of the more complex plants from the simpler ones.

Text-book: "Text Book of Botany," Vol 1 Part I—Coulter, Barnes, and Cowles.

BOTANY 6—Plant Physiology—Semester 2. (Rosenkrans)
Junior I, IX, Elective: (2 and 4)

A study of the structure and functions of plants, the object being to teach the student how plants live and grow and why they are dependent on certain physical factors as light, water, air, etc.

Text-book: "Text Book of Botany," Vol. 1. Part II—Coulter Barnes and Cowles.

BOTANY 8—Plant Pathology—Semester 2—(Rosenkrans)
Senior I, IX, Elective: (2 and 2). Pre-requisite: Botany 6.

A systematic study of fungi with special reference to species causing diseases of economic plants. The students are taught to recognize the more common diseases, particularly in the early stages, and the whole question of prevention and practicable remedies is fully discussed. Methods of isolating, artifically cultivating, and inoculating with disease-causing organisms will be considered.

Text-book: "Fungous Diseases of Plants."—Duggar.

BACTERIOLOGY 1—General Bacteriology—Semester 1. (Aull)
Junior I; Senior III, IX: (2 and 4)

This course is designed to give the student a clear working knowledge of the bacteria, yeasts, and molds. A detailed study is made of the morphology and physiology of bacteria in relation to man and animals, and to the arts and sciences. The principal bacterial diseases of man are studied and means of control discussed.

In the laboratory bacteria are studied in their relation to food, heat, light, and disinfectants, and their relation and importance to agriculture is stressed. Several forms are studied in detail. This study consists of isolating, growing them upon the various media, staining and determining the organism. Particular attention is paid to types found in water, soil, and milk.

Text-book: Buchanan's "Bacteriology," Revised edition supplemented, by lectures, bulletins and parallel readings.

BACTERIOLOGY 2—Dairy Bacteriology—Semester 2. (Aull)
Senior I, Elective: (2 and 4)
Prerequisite: Bacteriology 1.

This course is for students who major in Dairying. The bacteria concerned in the production of milk are emphasized. In the laboratory a careful study of the conditions around the barn and dairy is carried out. Analyses are made of milk, cream, butter, and ice cream. As far as possible, all the various bacteria found in milk products are isolated and studied in detail. The students prepare their own culture media and stains, and are thus enabled to get a good foundation for future work in bacteriology.

Text-book: Heinemann—"Milk."

BACTERIOLOGY 4—Sanitary Bacteriology—Semester 2. (Aull)
Senior I, III: (2 and 4)
Prerequisite: Bacteriology 1.

This course is designed to meet the needs of those students who specialize in chemistry. A study is made of the location and protection of water supplies, the purification of water, the disposal and purification of sewage, and the isolation of bacteria, particularly pathogenic forms in water.

In the laboratory the students prepare their own media and stains. Bacteriological examinations of water, and sewage are made and a detailed study of the forms found in water and sewage carried out. A careful study is also made of various disinfectants in water purification.

Text-books: Prescott and Winslow's "Elements of Water Bacteriology," "Standard Methods of Water Analysis," and Hazen's "Clean Water and How to Get It," supplemented by lectures and technical papers.

Division Rooms and Equipment

The laboratories and class rooms are located on the first floor of the Agricultural Hall. They contain a good equipment for satisfactory work in botany, forestry, and bacteriology, including sixty compound miscroscopes, microscope slides, projection apparatus, lantern slides and charts, Zimmerman, Spencer and Minot rotary microtomes, embedding baths, balances, incubators, Arnold, hot air sterilizers, autoclaves, dry ovens, anaerobic apparatus. The students have access to a small botanical and bacteriological library.

A creditable beginning has been made in collecting a herbarium. The herbarium has been installed in new insect-proof cases. The general collection includes the Anderson herbarium of 2,500 mounted specimens, about 700 mounted specimens of American violets, and 1,000 mounted specimens of flowering plants of Central New York, as well as a set of the F. V. Coville plants of New York State. The South Carolina herbarium contains over 1,200 mounted specimens, representing the South Carolina flora, and is kept separate from the general herbarium.

CHEMISTRY

Professor Brackett

Professor Mitchell

Professor Lippincott

Associate Professor Pollard

Assistant Professor Bender

CHEMESTRY 1, 2.—General Chemistry—Semesters 1 and 2 (Pollard and Bender)

Freshmen I. IX. (4 and 2)

Sophomores V, VI, VII, VIII: (2 and 2)

An introduction to chemistry, including the preparation and properties of the common substances, together with the consideration of the fundamental principles of chemical theory. Lecture experiments and laboratory exercises supplement the class work.

Text-books: Holmes' "General Chemistry."; Holmes' "Laboratory Manual of General Chemistry."

CHEMISTRY 1a, 2a.—General Chemistry—Semesters 1 and 2 (Pollard)

Freshmen XIII, III: (3 and 4)

This course is essentially the same as Course 1, 2 above with the addition of extra laboratory practice. The class and laboratory work is arranged to suit the students who are taking the four year Chemistry Course.

Text-books: See Course 1, 2.

CHEMISTRY 3.—Qualitative Analysis—Semester 1 (Lippincott)

Sophomores III: (0 and 10)

Prerequisites: Chemistry 1, 2, or 1a, 2a.

The properties and reactions of metallic elements and of the common inorganic and organic acids, also the qualitative analysis of a number of solutions and solid mixtures. Part of the time is set aside for theoretical work, during which time special attention is paid to the theory of electrolytic dissociation and the law of mass action.

Text-book: A. A. Noyes' "Qualitative Chemical Analysis."

CHEMISTRY 3a, 4—Quantitative Chemistry—Semester 2, (Lippincott)

Sophomore III: (0 and 10)

Junior I. (Elective): Semester 1 and 2 (0 and 2.)

Prerequisites: Chemistry 1, 2. or 1a, 2a.

The lectures and laboratory instruction are designed to prepare students to understand the mathematical relations, and the fundamental laws of chemistry, and to illustrate the principles involved in both gravimetric and volumetric methods used in elementary analysis.

Text-book: Mahin's "Quantitative Analysis."

CHEMISTRY 5, 6—Organic Chemistry—Semesters 1 and 2. (Lippincott)

Sophomore III, IX, XIII: (2 and 2)

Junior I. Elective: (2 and 2)

Prerequisites: Chemistry 1, 2 , or 1a, 2a.

A study during the first semester of the underlying principles of organic chemistry; the more common saturated and unsaturated aliphatic hydrocarbons; alcohols and their derivaties and aldehydes and ketones.

The second semester is devoted to the study of amines, polyatomic alcohols; hydroxyacids; carbohydrates; proteins; bezene and some of its homologues and a few of the more important dyes.

The laboratory course involves the preparation and purification of compounds selected from the fatty and aromatic series for the illustration of important synthetic reactions.

Text-books: Remsen and Orndorff "Organic Chemistry"; W. R. Orndorff—"Laboratory Manual of Organic Chemistry."

CHEMISTRY 7, 8—Physical Chemistry—Semesters 1 and 2. (Lippincott)

Junior III: (3 and 4)

Prerequisites: Chemistry 1, 2. or 1a, 2a.

A systematic presentation of modern chemical theory in which special attention is paid to the following topics:—gases, liquids, and solids; the theory of solutions; reaction velocity, catalysis and chemical equilibrium; the Phase Rule; colloid chemistry; thermochemistry and elementary electro-chemistry.

The laboratory work involves qualitative and quantitative experiments illustrating the principles of physical chemistry and including practice in performing physical chemical measurements. An important feature of this course is the presentation of detailed reports based upon data obtained in the laboratory.

Text-books: Bigelow's "Physical Chemistry" and Brigg's "Laboratory Outlines in "Physical Chemistry."

CHEMISTRY 9—Quantitative Chemistry—Semester 1 (Mitchell)

Junior III: (0 and 4)

Prerequisite: Chemistry 4.

A continuation of Chemistry involving the analysis of limestone, clay, silicates and the products of some important industrial and metallurgical operations as coal, pig iron, steel, etc. Electrolytic methods and separations.

Text-books: Mahin's "Quantitative Analysis" and other standard reference books.

CHEMISTRY 10.—Gas and Fuel Analysis—Semester 2. (Lippincott)
Junior III: (Elective) (0 and 2)
Prerequisite: Chemistry 4.

This course consists in the analysis of various gases, and mixtures of gases, such as coal gas, flue gas, natural gas, air and others. Also the analysis of various fuels.

CHEMISTRY 11, 12—Organic Chemistry—Semester 1, (Semester 2, Elective.) (Lippincott).
Junior III. (2 and 2)
Prerequisites: Chemistry 5, 6.

A review and extension of chemistry 5, 6, the greater portion of time being given to the study of aromatic compounds.

The laboratory work is more advanced and the greater portion of the time will be devoted to quantitative organic analysis.

Text-book: Perkin and Kipping, "Organic Chemistry."

CHEMISTRY 13, 14—Agricultural Chemistry—Semesters 1 and 2 (Brackett)
Junior I: (2 and 0, except Group C for semester 1).
Prerequisites: Chemistry 1, 2.

This course is devoted to a study of the composition of plants and a discussion of the sources from which the plant derives its constituent elements.

Text-books: Phillips' "Fundamentals of Organic and Biological Chemistry."; Hart and Tottingham's "General Agricultural Chemistry."

CHEMISTRY 16—Metallurgy—Semester 2, Elective. (Brackett)
Junior III: (4 and 0)
Prerequisites: Chemistry 1, 2.

Physical properties of metals; testing metals; refractories and fluxes; combustion and thermal measurements; fuels; ore dressing; furnaces and accessories; iron ores and metallurgy of iron and steel; copper ores and smelting, extraction and refining of copper; lead ores and metallurgy, and refining of lead; zinc ores and metallurgy of zinc; gold and silver; alloys, their nature and preparation and uses.

Text-books: Wysor's "Metallurgy."; Notes on alloys.

CHEMISTRY 17—History of Chemistry—Semester 1 **(Brackett)**

Seniors I (Elective), III, IV: (2 and 0)

Prerequisites: Chemistry 1, 2-5, 6.

The study of the development of the science of chemistry from the earliest times to the present day.

Text-book: Moore's "History of Chemistry."

CHEMISTRY 18—Stoichiometry—Semester 2. (Mitchell).

Senior I (Elective) and III: (2 and 0)

Prerequisites: Chemistry 1, 2.

A study of chemical equations, the various kinds in use with their meaning and value; different ways of balancing equations, calculations of various kinds involved in chemistry.

Text-book: Ashley's "General Calculations."

CHEMISTRY 19, 20—Colloid Chemistry—Semesters 1 and 2. (Pollard)

Senior III.

Prerequisite: Physical chemistry.

The general theory of colloid chemistry, with some of its applications in industrial chemistry, dying, photography, ceramics, soils, biology, food, etc.

Text-book: Bancroft "Applied Colloid Chemistry."

CHEMISTRY 21, 22—Inorganic Chemistry—Semesters 1 and 2. (Brackett)

Senior I (Elective), III: (2 and 0)

Prerequisite: Chemistry 1 and 2.

A review, extension and continuation of chemistry 1, with special reference to the laws and theories of chemistry, and a study of some of the rarer substances.

Text-book:

CHEMISTRY 23, 24—Technical Analysis-Thesis—Semesters 1 and 2 (Mitchell)

Senior III: Semester 1 (0 and 8); Semester 2 (0 and 8)

Senior I. (Elective): Semesters 1 and 2 (0 and 6)

Prerequisite: Chemistry 4.

The analysis of commercial fertilizers, feeding material, waters, oils, etc. The latter part of the course is devoted to thesis work.

Text-book: Methods of the Association of Official Agricultural Chemists; standard reference books on quantitative analysis.

CHEMISTRY 26—Selected Topics in Chemistry—Semester 2 (Brackett)

Senior I (Elective), III (4 and 0).

Selected topics in inorganic, organic, industrial, agricultural and Sanitary chemistry, to suit the needs of the student.

CHEMISTRY 28.—Advanced Laboratory Practice—Semester 2. Senior I. (Elective), III (0-4-8). (Mitchell).

Advanced laboratory practice inorganic, organic, agricultural, and sanitary, to suit the needs of the student.

Building and Equipment

Two brick buildings, each about 80 by 50 feet with two stories and a basement, connected on both floors by glass enclosed passages, are devoted to the work of this department. These buildings are steam heated, electrically lighted and well ventilated.

The south building is used almost entirely for academic work. On the first floor are six rooms: a physical chemistry laboratory, a balance room, a qualitative analysis laboratory, for sophomores, a laboratory for organic preparations and analyses for juniors and seniors, an Experiment Station Laboratory, and a small stock room communicating directly with the main stock room in the basement below. On the second floor of this building are three rooms: a laboratory for general chemistry for freshmen and sophomores beginning chemistry, a laboratory of quantitative analysis for juniors and seniors with an adjoining balance room. The laboratories throughout this building are equipped with suitable work tables and hoods fitted with water and gas connections. The basement of this building is divided into a stock room, a storage room and a room for the air pump mixer of the gasoline gas machine which supplies the building.

The north building serves partly for academic and partly for the analytical work of the Fertilizer Analysis Division of the Public State Work of the college. The first floor of this building is all given up to the latter work. There are nine rooms on this floor: one is used as the Director's office; one as a laboratory for water analysis and miscellaneous analytical work; one is used for nitrogen availability work, and adjoining this room is a small room used as an office and balance room by the chemist of the fertilizer control; the five rooms on the other side of the wide hall extending the full length of the building are devoted to the analysis of fertilizers, three of them being equipped as laboratories for the determination of phosphoric acid, potash and ammonia; one being used as a balance room, and the last as a store room, for fertilizer samples. The laboratories for fertilizer analysis are well equipped for carrying on efficiently a large amount of work simultaneously. The phosphoric acid room has, in addition to the usual equipment, a stirring machine operated by motor for use in volumetric determinations. The potash room contains an electric drying oven. The ammonia laboratory is equipped with a Durion Kyeldahl digestion apparatus and has facilities for carrying on forty-four digestions and forty-four distillations at the same time, using the Kjeldahl method. On the second floor of this building there are six rooms: two are used as lecture or class rooms, one of which can accommodate about 150 students and the other 49; one room is used as a preparation room in connection with lecture experiments; one is fitted for electrochemical work; one is used as a chemical library, and an adjoining room as a reading room. The library contains several hundred volumes of standard books, which are partly card indexed according to the most modern system, and the reading room a dozen or more journals devoted to chemistry. The library also contains many valuable pamphlets and bulletins. Both the library and reading room are open to students as well as to members of the Department and to the College Faculty. The basement of this building contains four rooms, one of which is a safe deposit vault for storage of records and other things of value. One of the other three rooms is use as a class room; one for the distillation of water; in one is installed the gas plants, which supply this building and this room is also used as a stock room; and the remaining room is used as an assay laboratory.

In addition to the apparatus and chemicals usually found in all well equipped laboratories for qualitative and quantitative analysis, the quantitative laboratory for Juniors and Seniors contains an electric drying oven, and a stirring machine for volumetric phosphoric acid determination, and a motor to run the machine, and also equipment for Kjeldahl nitrogen determinations; the laboratory for physical chemistry is now equipped for the conduct of the experiments in connection with the course as now offered.

CIVIL ENGINEERING

Professor Clarke

Assistant Professor Glenn

Assistant Professor Aegerter

Instructor Blandford

CIVIL ENGINEERING 1, 2—Surveying—Semesters 1 and 2. (Clarke)

Sophomore V. (2 and 4)
Prerequisites: Mathematics 3, 4.

This course is designed to give the student a considerable facility in the theory and use of modern surveying instruments and methods, including the platting of notes for maps and profiles.

Text-book: Breed and Hosmer's "Principles and Practice of Surveying."

CIVIL ENGINEERING 3, 4—Surveying—Semesters 1 and 2. (Glenn, Blandford)

Sophomore VI, VII, VIII, Elective IX. (1 and 2)

Prerequisites: Mathematics 3, 4.

This course covers only the more simple and fundamental theory and use of the tape, transit, and level.

Text-book: Breed and Hosmer's "Principles and Practice of Surveying".

CIVIL ENGINEERING 5—Railroad Curves and Earthwork—Semester 1. (Clarke)

Junior V. (3 and 0)

Prerequisites: Civil Engineering 1, 2.

This course covers the theory and solution of problems involving simple, compound and reverse curves; and the special modifications thereof in the use of frogs. Special attention is given to the spiral transition from tangent to curve. The setting of slope-stakes and various problems of computation of earthwork from cross sections and also from contours, are thoroughly covered in this course.

Text-book: Allen's "Railroad Curves and Earthwork."

CIVIL ENGINEERING 7-8—Railroad Location—Semester (1 and 2) (Clarke)

Junior V. (0 and 4)

Prerequisite: Civil Engineering 5.

This course is designed to put in actual practice the theoretical principles covered during the first semester in civil engineering 5. An actual railroad survey is made between two prescribed termini, covering reconnaissance, preliminary survey, and location; the final line is run in with all curves spiraled: the grade is fixed, slope-stakes set and the amount of earthwork and total cost of construction computed.

CIVIL ENGINEERING 10—Strength of Materials—Semester 2. (Glenn)

Junior II, V. (3 and 0)

Prerequisite: Mechanical Engineering 3.

A study of the various building and structural materials as regards stresses in riveted joints, beams and columns. Particular reference to be given to the analysis of the various stresses in all types of beams.

Text-book: Boyd's Strength of Materials."

CIVIL ENGINEERING 12—Graphic Static—Semester2 (Aegerter)
Junior II, V. (1 and 2)
Prerequisite: Mechanical Engineering 3.

A study of the principles of graphic analysis, application of these principles to the determination of stresses in roof and bridge trusses, portals, bents, girders, the three-hinged arch, etc. This course is designed to cover all the common problems of structural design solved by graphics.

Text-book: Malcolm's "Graphic Statics."

CIVIL ENGINEERING 14—Structural Design—Semester 2. (Aegerter)
Junior V. (0 and 4)
Prerequisite: Mechanical Engineering 1, 2.

This course is devoted for the first half of the semester to a thorough study of built-up sections, riveting, and the design of details; such as joints, bracing, latticing, supports, etc. The second half is devoted entirely to the detail design of either a plate or deck girder.

Text-book: Bishop's "Structural Design."

CIVIL ENGINEERING 16—Bridge Design—Semester 2. (Aegerter)
Senior V. (2 and 2)
Prerequisites: Civil Engineering 10, 12, 14.

This course is designed to give the student a general knowledge of the field of bridge engineering along with the practice of working out actual designs. This is accomplished by means of a series of lectures, supplemented by the design by each student of both a concrete and a steel bridge.

Text-book: Ketchum's "Structural Engineer's Hand-Book."

CIVIL ENGINEERING 17—Hydraulics—Semester 1. (Clarke)
Senior V. (2 and 0)
Prerequisite: Mathematics 6, 7.

A course covering the principles of the flow of water, with particular reference to the need of knowledge thereof in connection with the study of water supply systems and sewerage.

Text-book: Daugherty's "Hydraulics."

CIVIL ENGINEERING 18—Hydraulics—Semester 2. (Clarke)
Senior IV, VI, VII. (2 and 0).
Prerequisite: Mathematics 6, 7.

A general course in the fundamental principles governing the flow of water through orifices, weirs, pipes and channels.

Text-book: Daugherty's "Hydraulics."

CIVIL ENGINEERING 19—Strength of Materials—Semester 1. (Aegeter)

Senior VI, VII. (3 and 0)

Prerequisite: Mechanical Engineering 1, 2.

This course is a study of the various building and structural materials and includes; stresses, tension, compression, shear, torsion, riveted joints, beams, and columns. Experimental results are used to illustrate the applications to the actual building in the field.

Text-book: Boyd's "Strength of Materials."

CIVIL ENGINEERING 21—Masonry Construction—Semester 1. (Clarke).

Senior V. (2 and 0)

Prerequisite: Civil Engineering 10, 12.

While this course gives consideration to all kinds of masonry, the most particular attention is directed toward the use of concrete, both plain and reinforced. The subject of foundations is taken up in detail, and the methods used in improving the bearing power of weak soils. Discussion is made of the fundamental principles of design applying to dams, retaining walls, bridge abutments and piers, and arches.

Text-book: Baker's "Masonry Construction."

CIVIL ENGINEERING 23—Roads and Pavements—Semester 1. (Glenn)

Senior V. (3 and 0)

Prerequisites: Civil Engineering 7, 8.

This course consists of a thorough investigation into the merits and disadvantages of all different types and methods of highway construction, from dirt roads up to the highest type of hard surfaced pavement. The details of construction are covered in full, in order in so far as possible to fit the student to enter at once into the highway improvement which at this time engages so much public attention. In addition to the general problem of highway construction, this course also gives attention to the problems of grade and drainage of streets, which especially confront the municipal engineer. Students in this course must also take civil engineering 31, 32.

Text-book: Agg's "Roads and Pavements."

CIVIL ENGINEERING 24—Water Supply—Semester 2. (Clarke)

Senior V. (3 and 0)

Prerequisites: Civil Engineering 7, 8, 10, 12, 17.

A course devoted to the engineering procedure necessary to determine the quantity and quality of various sources of water supply; and the method used to improve the quality of unpotable waters;

and the construction of works for the collection of water, and works for the distribution of water.

Text-book: Turneaure and Russell's "Public Water Supplies."

CIVIL ENGINEERING 26—Sewerage and Sewage Disposal—Semester 2. (Clarke)

Senior V. (3 and 0)

Prerequisites: Civil Engineering 7, 8, 10, 12, 17.

A very specific course covering all the points of theory and practice involved in the construction of a modern sewerage system, and the various methods employed to dispose of sewage in accordance with sanitary law.

Text-book: Babbitt's "Sewerage and Sewage Treatment."

CIVIL ENGINEERING 28—Engineering Relations—Semester 2. (Clarke)

Senior V. (1 and 0)

This course covers the general principles of law and ethics involved in the relations of the engineer as principal, agent, or client; and the fundamental legal features involved in the writing of contracts and specifications.

Text-book: Allen's "Business Law for Engineers."

CIVIL ENGINEERING 30—Engineering Investigations and Design—Semester 2. (Clarke).

Senior V. (0 and 4)

Prerequisites: Civil Engineering 21, 23, and registration in C. E. 24, 26.

This is a practical course in conjunction with the theoretical work given during the senior year and gives actual experience in the performance of the necessary investigations and design of structures in all those branches. In masonry; borings are made to ascertain foundations, and designs are made of bridge masonry and arches. In water-supply; a stream is gauged and rated, and the necessary surveys and designs are made for collecting, storage and distributing works. In sewerage; a field survey and actual design are made for a sewerage system for some neighboring town.

Inspection trips away from the college are planned as circumstances favor.

CIVIL ENGINEERING 31, 32—Road Materials Testing Laboratory—Semesters 1 and 2. (Glenn)

Senior V. (0 and 3)

Prerequisites: Civil Engineering 10, and registration or credit in C. E. 23.

In this course the student performs in the laboratory the standard tests of all materials used in highway construction.

This includes tests and analyses of top-soil, bituminous materials, Portland cement, sand, stone, brick, steel, wood, drain-tile, concrete, etc. The latter part of the course is devoted to the actual design, preparation and testing of concrete and bituminous paving mixes, and instruction in the field tests of materials to regulate their quality.

This course in conjunction with civil engineering 23 is designed to fit the student for practical work in the highway engineering field.

CIVIL ENGINEERING 34—Thesis—Semester 2. (Clarke).
Senior V. (0 and 2)

Every senior, prior to graduation, is required to prepare and submit a thesis. This may be either an original theoretical investigation; or an actual design similar to the work done in courses 16, 30, 31, and 32. The time allotted to this subject represents merely the time devoted thereto under the direct supervision of the instructor. The student is expected to put in much additional individual work.

Division Rooms and Equipment.

The collection of field instruments contains the following:

Two complete transits with solar attachments; six engineer's transits; four railroad compasses; two six-inch vernier compasses; one precise level; three twenty inch wye levels; four dumpy levels; two architect's levels; one convertible architect's level; one drainage level: six Locke hand levels; one binocular hand level: two stadia hand levels, with a supply of self-reading and target rods; two complete plane tables; a Price current meter, with steel boat and truck; sextant; aneroid barometer; flag poles; tapes; chains and all necessary accessories.

The office equipment includes planimeter, slide rules, drafting instruments, and a universal drafting machine.

The road materials laboratory contains full and complete equipment for testing stone, sand, cement, brick, all bituminous materials and top-soil. This equipment includes a Deval abrasion machine; Dorry hardness machine; Page impact machine; diamond drill and saw with grinding lap; ball grinding mill; briquette-making machines for cementation and tension tests; impact cementation machine; brick rattler; 100,000 pound Olsen universal testing machine for testing stone, brick, cement mortars and concrete in compression; moisture closet; mixing tables; steam bath apparatus; Vicat appratus ; Le Chatelier apparatus; Fairbanks tension briquette testing machine; cement, sand, and stone sieves; Ro-tap shaker; Dulin Rotarex extractor; New York Laboratory type penetrometer; ductility machine; Engler viscosimeter; Freas electric oven; dehydration and distillation apparatus for both tars and asphalts; analytical balance; flash and burning point apparatus; ring and ball apparatus; float test apparatus; hydrometers; pycnometers; balances; and all necessary accessories.

The college owns a concrete mixer which is also in the custody of the road materials laboratory, and is used for practical instruction in mixing and placing concrete.

The laboratory for the testing of materials of construction contains the following principal items of equipment: one 100,000 pound Olsen automatic universal vertical testing machine, electrically driven, and designed to test materials in tension, compression, and shear; one 3,000 pound transverse testing machine for determination of the flexural strength of short beams; one 60,000 pound Olsen torsion testing machine; one compression micrometer; one Duplex micrometer extensometer; one deflection instrument and torsion meter.

DAIRY HUSBANDRY

Professor LaMaster

Associate Professor Goodale

DAIRYING 2—Milk Products, Production and Manufacture—Semester 2. (Goodale)
Junior 1: (2 and 2)

The object of this course is to give the student a knowledge of the production, care and testing of milk and its products; also the Management and feeding of dairy cattle.

Text-book: "Productive Dairying"—Washburn.

DAIRYING 4—Dairy Cattle Judging—Semester 2. (LaMaster)
Junior I (Elective): (0 and 2)

A study of the breeds, type and characteristics of dairy cattle with practice in judging and selection of animals for production and exhibition.

DAIRYING 5, 6—Dairy Manufacturing—Semester 1 and 2. (Goodale)
Senior 1: Semester 1 (2 and 2) Semester 2 (2 and 4)
Prerequisite: Dairying 2.

This course deals with the problems of market milk and the intensive study of the manufacture of butter, cheese and ice cream.

Text-books: "Principles and Practice of Buttermaking" McKay and Larsen, "The Book of Cheese"—Thom and Fisk, "The Book of Ice Cream"—Fisk.

DAIRYING 7—Creamery Organization and Management—Semester 1 (Goodale)

Senior 1: (3 and 0). Elective.

Prerequisite: Dairying 2.

A thorough study of the organization and operations of commercial creameries, creamery accounting, and marketing of dairy products.

Text-book: "Management of Dairy Plants"—Mortensen

DAIRYING 9—Dairy Cattle Feeding and Management—Semester 1 (LaMaster)

Senior 1: (2 and 2) Elective.

Prerequisite: Dairying 2.

This course is an advanced study of feeds, care, management and development of dairy cattle and methods of milk production.

Text-book: "Dairy Cattle and Milk Production"—Eckles.

DAIRYING 10—Dairy Cattle Breeding—Semester 2 (LaMaster)

Senior 1: (1 and 2) Elective.

Prerequisites: Dairying 2 and Agronomy 5.

A study of the practical application of the principles of genetics in its relation to dairy cattle breeding. This will be followed by an extensive study of the leading families and individuals of the major dairy breeds.

Text-book: To be selected.

DAIRYING 12—Advanced Dairy Farming—Semester 2 (LaMaster)

Senior 1: (2 and 2). Elective.

Prerequisite: Dairying 2.

A study of dairy herds based on milk and feeding records, dairy farming and its relation to soil fertility, and dairy farm management. An advanced course in dairy farming.

Text-book: "Dairy Cattle Feeding and Management"—Lasson and Pentney.

Division Rooms and Equipment

The live stock consists of a large herd of registered Jersey cattle, registered Holstein-Friesians, and registered Guernseys.

These cattle are housed in a splendid modern dairy barn with a capacity of one hundred and twenty cows. This barn has the most sanitary equipment throughout.

The dairy laboratories are equipped for milk testing, separator demonstrations, butter making, etc.

The Clemson College Creamery has complete equipment for the making of butter cheese and ice cream and the cooling and the pasteurization of milk. This creamery is in continuous operation for the entire year, and offers exceptional advantages to students who wish to fit themselves for commercial creamery and ice cream work.

DRAWING

Professor Lee

Associate Professor Klugh

Instructors Harris and Siegler

DRAWING 1—Freehand Drawing—Semester 1. (Harris)
Freshman I, III, IX, XIII. (0 and 2.)

The course is designed, primarily, to assist the student where drawing is needed in his work in agricultural subjects. Proportion and detail are stressed. The course consists in fullsized, enlarged and reduced drawings of irregular shaped objects and in outlining and shading of geometrical figures.

DRAWING 3—Freehand Drawing—Semester 1. (Seigler)
Freshman II. (0 and 2).

This course is the same as the first semester of drawing 5.

DRAWING 5, 6 —Freehand Drawing—Semesters 1 and 2. **(Harris** and Siegler)
Freshman V, VI, VII, VIII, XI. (0 and 2).

A course, designed to meet the needs of the engineer, who must express himself in the clearest and quickest way to workmen under his charge.

During the first semester the student gets a thorough drill in the principles of perspective. The second semester is devoted to drawing machine parts, particular attention being given to the development of the imagination.

The first semester is prerequisite to the second.

DRAWING 8—Mechanical Drawing—Semester 2. (Harris).
Freshman I, III, IX, XIII, (0 and 2)

Lettering, exercises in the uses of instruments, orthographic projection, scale drawings from the text; design of a small farm building, tracing and blue printing.

Text-book: French and Ives' "Agricultural Drawing."

DRAWING 9, 10 —Mechanical Drawing—Semesters 1 and 2. (Klugh and Harris)
Freshman V, VI, VII, VIII, (0 and 2)

Exercises in the use of instruments and in applied geometry; Reinhardt lettering; conventional use of lines; orthographic projection; scale working drawings from the text; finding other views of objects from given views; working drawings from sketches; working drawings from parts of machines; assembled views from working drawings of parts; tracing; blueprinting.

The first semester is prerequisite to the second.

Text-book: French's "Engineering Drawing."

DRAWING 11—Mechanical Drawing—Semester 1. (Klugh)
Freshman II. (0 and 2)

Same as first semester Drawing 9, drawing of details of buildings.

DRAWING 13—Descriptive Geometry—Semester 1. (Klugh)
Sophomore V, VI, VII, VIII. (0 and 2)
Prequisites: Drawing 6, 8.

Study and delineation of projections of points, lines, plane surfaces and solids, and their various relations; tangencies, intersections, and developments under normal and sub-normal conditions; original exercises required to illustrate topics under consideration.

Text-book: Smiths "Practical Descriptive Geometry."

DRAWING 14—Mechanical Drawing—Semester 2. (Klugh)
Sophomore VI, VII, VIII. (0 and 2)
Prerequisites: Drawing 6, 10, 13.

Continuation of work in Drawing 10 in orthographic projection; intersection and development problems, showing relation of plan and elevation to developed surfaces, isometric and perspective drawing; working drawings from machines or parts of machines from sketches and specifications. Elementary principles of machine design. Tracing and blue printing.

Text-book: French's "Engineering Drawing."

DRAWING 16—Structural Drawing—Semester 2. (Klugh)
Sophomore V. (0 and 2)
Prerequisites; Drawing 6, 10, 13.

Study of structural symbols and elementary structural design. Reading of structural drawings; tracing and blue printing.

Text-book: French's "Engineering Drawing;" Instructor's notes and problems.

DRAWING 17, 18—Machine Design—Semesters 1 and 2. (Klugh)
Junior VI, VII. (0 and 3).
Prerequisite: Drawing 14.

One hour each week is devoted to the study of the theory of spur, bevel, and screw gearing; lobed and elliptic wheels; epicyclic trains; ratchet motions; link motions; quick return motions; and cam motions. A series of lectures covering some of the practical problems of engineering is given in connection with this course.

Two hours each week are devoted to practical problems illustrating the principles studied, to working drawings in design, and to tracing and blue printing.

Text-books: Keown's "Mechanism", French's "Engineering Drawing."

Rooms and Equipment

The division of architecture and drawing is located on the second and third floors of the engineernig building.

On the second floor are several large rooms devoted to free-hand drawing and engineering drafting and design; a locker room; office for the head of the division and three blue print rooms equipped for printing by sun and electricity. A 42-inch Pease automatic printing, washing and drying blue-print machine is installed in one of these rooms. The rooms are equipped with drafting tables, individual lockers, plaster casts, parts of machines useful in design and blue prints.

Each student is required to own a complete outfit of drawing tools, such as a set of instruments, board, T-square, and other material. This outfit must be first-class in every respect, must be approved by the instructor in charge, and no second-hand or inferior tools will be permitted to be used by an engineering student; the agricultural freshman, however, may use the cheaper instruments. Students are incapable of judging drawing instruments and make a mistake in buying low-priced instruments which appear to be of good quality, but are inferior and will not give good service, soon necessitating the purchase of another set. Students are advised to buy these tools at the Cadet Exchange where they can see samples and make selections. On account of the large number of sets of instruments bought by the college each year, a very large discount is obtained and given to the student. The more expensive and less used instruments are kept in the office for the use of students needing them.

ECONOMICS AND SOCIOLOGY

Professor Brearley

ECONOMICS AND SOCIOLOGY 1 —Political Economy. —Semester 1—(Brearley)

All seniors: (2 and 0)

The course comprises a study of the principles underlying and the laws governing economic action and reaction. Special attention is paid to consumption, production, price, fixation, rent, wages, interest, and current problems.

Text-book: Ely's "Outlines of Economics."

ECONOMICS AND SOCIOLOGY 2—Sociology—Semester 2—(Brearley)

All seniors: (2 and 0)

This course is a study of the elementary principles of sociology and of some of the special social problems, considered in the light of general principles.

Text-book: Ellwood's "Sociology and Modern Social Problems."

ECONOMICS AND SOCIOLOGY 3, 4—Psychology—Semester 1 and 2 (Brearley)

Elective: All courses (2 and 0)

An introductory course in general psychology, emphasizing the study of the nervous system, the psychology of learning, and selected problems in social psychology. This course is especially valuable for students taking advanced work in social science or education.

EDUCATION

Professor Crandall

Associate Professor Sisk

Associate Professor Washington

Assistant Professor Ayers

Assistant Professor Sturkie

Undergraduate Courses

Undergraduate courses in Education are offered to aid persons in preparing for the following general types of positions:

1—Teachers of Agriculture.

2.—Teachers of Trades and Industries.

3—Teachers of Science, Mathematics, and other high school subjects.

The following sequences of courses are planned to train men for these positions:

Teachers of Agriculture—Agricultural Education 1, 2, 3, 4, 6.

Teachers of Trades and Industries—Industrial Education 5, 7, 8, 10, 12.

Teachers of high school subjects—Education 9, 11, 14, 16, 18, 13, 20.

EDUCATION 1—Agricultural Education—Semester 1. (Crandall) Junior I. Elective; (1 and 4)

The principal purpose of this course is to familiarize students with the work of teachers of agriculture in local communities. Students observe and report on the work of all-day, part-time, evening and day unit classes; and community and promotional work;

equipment and general organization of a program in Agricultural Education for a local community.

EDUCATION 2—Agricultural Education 2—Education Psychology—Semester 2 (Washington)
Junior 1: Elective:, (2and 2)

Study of the learning process in terms of situation, bond, response; how to study; effect of attitude, feelings and method on the learning process; how to remember; value of recognition and proper control of instincts in formulating educational programs; habit formation; individual differences as affecting educational and vocational performances; the psychology involved in the interview and in personality as affecting development of teachers as vocational and educational leaders. Special attention is given to the study of the mental ability, attitude, interests, and aptitudes of the groups affected by education in its various phases.

EDUCATION 3—Agricultural Education—Semester 1. (Crandall).
Senior 1, Elective: (2 and 4)

In this course emphasis is placed on the participation of students in all possible phases of the work of a teacher of agriculture in a local community. Students participate in organizing and conducting all-day, part-time, evening and day unit classes. Students are held responsible for definite phases of community and promotional work. Instruction in principles and methods of teaching is given in connection with students' participation.

EDUCATION 4—Agricultural Education—Semester 2. (Crandall, Ayers, Sturkie).
Senior 1, Elective: (0 and 10)

Each student is required to assume the work and responsibility of a teacher of agriculture in a local community.

EDUCATION 6—Agricultural Education—Semester 2. (Crandall)
Senior 1, Elective: (3 and 0)

The developing of teaching material in vocational agriculture receives special emphasis in this course. Students are expected to make careful analyses of conditions and practices of farming in a local community as one of the chief sources of subject matter.

EDUCATION 5—Industrial Education—Semester 1 (Washington)
Junior VIII A, (3 and 0)

This is an introductory course required of all students pursuing Industrial Education. The chief purpose of this course is to orient the students in the field of Industrial Education. Special emphasis will be placed on familiarizing the students with the need for vocational education in trades and industries in South Carolina.

EDUCATION 8—Industrial Education—Educational Psychology— Semester 2. (Washington)
Junior VIII A, (2 and 2)

See Agricultural Education 2—Educational Psychology.

EDUCATION 7—Industrial Education—Semester 2.(Washington).
Senior VIII A, (3 and 2)

Study of educational needs of textile employees, job analysis of certain jobs in cotton mill, study of mill as a whole, construction of courses to be taught in vocational classes and schools.

EDUCATION 10—Industrial Education—Semester 1. (Crandall)
Senior VIII, A (3 and 2)

Special emphasis is placed in this course on the teaching of problems in the trades and industries in South Carolina. Such topics as the project method of teaching, lesson types, teaching exercises, type studies, and lesson planning are studied in this course.

EDUCATION 12—Industrial Education—Semester 2. (Washington).
Senior VIII A, (4 and 0)

Students who pursue the curriculum in Industrial Education are required to observe and teach in evening and part-time classes in trades and industries.

EDUCATION 9—Introduction to Education—Semester 1. (Crandall)
Junior IX, Elective: (3 and 0)

A general introductory course required of all students majoring in Education. This course takes up a survey of the general field of Education for the purpose of giving the student a background for more specialized courses in Education.

EDUCATION 14—Educational Psychology—Semester 2. (Washington)
Junior IX, (2 and 2)

See Agricultural Education 2—Educational Psychology.

EDUCATION 11—Principles of Teaching—Semester 1. (Crandall)
Senior IX, Elective: (3 and 2)

This is a course treating of the principles of teaching high school subjects. Such topics as the project method of teaching; lesson types: teaching exercises—recitation, laboratory, supervised study, demonstration, field trip; examinations; type studies; and lesson planning, are studied in this course.

EDUCATION 16—Special Methods in Teaching High School Subjects—Semester 2.... (Washington)

Senior IX, Elective. (3 and 2)

Among the topics to be considered are the objectives of different high school subjects, course building, methods of evaluating instruction in high school subjects, comparative study of text books and laboratory manuals, and the adaptation of high school courses to local conditions.

EDUCATION 18—Practice Teaching—Semester 2.—(Crandall. Ayers, Sturkie).

Senior IX, Eletcive: (4 and 0)

This course is required of all students in general Science who elect a major in Education. Students in General Science observe and teach in high school departments in public high schools located near the College.

Graduate Courses

Graduate courses are offered in Education to aid persons preparing for or engaged in the following types of positions:

1. Teachers, principals, and superintendents of public schools.
2. Instructors in colleges and universities.
3. Teachers of agriculture.
4. County superintendents and other people interested in administrative and supervisory work.

A candidate for the Master's degree in Education must have had an undergraduate major of at least fifteen semester hours in Education, or its equivalent. Graduates of an approved college or university may enroll in graduate work in Education and may take undergraduate and graduate courses in Education as parallel courses, unless the undergraduate courses are definite prerequisites to the graduate courses.

One year of successful experience in teaching may be accepted in lieu of the practice teaching requirement in a undergraduate major in Education.

EDUCATION 201 —Advanced Educational Psychology—Semester 1 (Washington)

(3 and 0)

Prerequisite: Education 5.

The following topics will be discussed: Instincts, reasoning, imitation, suggestion, motivation, drill work, transfer of training, and the physiological aspects of psychology.

EDUCATION 203—Tests and Measurements—Semester 1. (Washington)
(3 and 0)

This course will include a general survey of the scope and purpose of intelligence and educational tests. In addition to furnishing experience in the use of tests, the following topics will be studied: Construction of tests, quality of scales, derived scores, improving examinations, statistical methods, uses of tests in vocaional and educational guidance.

EDUCATION 205—Secondary Education—Semester 1. (Crandall)
(3 and 0)

The aims of secondary education, secondary-school population, curricula of the secondary schools, and the junior high school are among the topics considered in this course.

EDUCATION 207—High School Administration—Semester 1. (Crandall)
(3 and 0)

High school superintendents and principals should find this a profitable course. Among the topics to be considered are the school plant including buildings, supplies, and equipment; the teaching corps, its selection, supervision, promotion and dismissal; curricula and courses of study; the program of studies; classification and promotion of pupils; guidance of pupils; extra-curricular activities; administration and supervision of mental and educational tests; records and reports; and accrediting high school work.

EDUCATION 202—Statistical Methods Applied to Education—Semester 2 (Crandall)
(3 and 0)

The statistical methods commonly applied in the interpretation of educational data are studied in this course.

EDUCATION 204—Principles of Teaching—Semester 2. (Crandall)
(3 and 0)
Prerequisites: Education 7.

The fundamental aims of good teaching, the problem-project method of teaching, job analysis as an aid in teaching, and the technique of teaching involved in the solution of a problem are some of the topics treated in this course.

EDUCATION 206—Public School Administration and Supervision—Semester 2. (Washington)
(3 and 0)

The common school district and its limitations; the county units of school administration and supervision; the possibility of the natural community in administering and supervising public education; the authority and function of the state in administering and supervising public education; factors affecting consolidation; participation of the Federal government in public education; methods of financing public schools; bases of distributing public school funds, are the topics discussed in this course.

ELECTRICAL ENGINEERING

Professor Dargan

Professor Rhodes

Instructor Watkins

ELECTRICAL ENGINEERING 1—Electrical Engineering—Semester 1. (Rhodes and Watkins).
Juniors VI, VII. (3 and 3)
Prerequisites: Mathematics 6; Physics 5, 6.

A study of electric and magnetic circuits, including fundamental laws for both direct and alternating current and the construction, operation and standard methods of testing electrical measuring instruments.

Text-book: Dawes' "Electrical Engineering," Vol. I.

ELECTRICAL ENGINEERING 2—Electrical Engineering—Semester 2. (Rhodes and Watkins)
Junior VI, VII. (3 and 3)
Prerequisite: Electrical Engineering 1.

A continuation of electrical engineering 1 with an introduction to direct current generators and motors.

Text-book: Dawes' "Electrical Engineering," Vols. I and II.

ELECTRICAL ENGINEERING 3—Electrical Engineering—Semester 1. (Dargan).
Senior VI. (5 and 4)
Prerequisites: Electrical Engineering 2, Mathematics 7, Mechanical Engineering 1, 2.

A study of direct and alternating current dynamos and equipments including fundamental laws, construction, operation and testing.

Text-books: Dawes' "Electrical Engineering," Vols. I and II, Christie's "Electrical Engineering." Bulletins and reference books.

ELECTRICAL ENGINEERING 4—Electrical Engineering—Semester 2. (Dargan and Watkins).
Senior VI. (5 and 5)
Prerequisite: Electrical Engineering 3.

A continuation of electrical engineering 3 with a brief introduction to the study of generation, transmission, distribution and utilization of electrical energy.

Text-books: Same as for electrical engineering 3.

ELECTRICAL ENGINEERING 5—Electrical Engineering—Semester 1. (Dargan and Rhodes).
Senior VII. (3 and 2)
Prerequisites: Electrical Engineering 2, Mathematics 7, Mechanical Engineering 1, 2

Similar to electrical engineering 3, but arranged for mechanical engineering students.

Text-books: Dawes' "Electrical Engineering," Vols. I and II.

ELECTRICAL ENGINEERING 6—Electrical Engineering—Semester 2. (Dargan and Rhodes)
Senior VII. (3 and 2)
Prerequisite: Electrical Engineering 5.

Similar to electrical engineering 4, but arranged for mechanical engineering students.

Text-books: Dawes' "Electrical Engineering" Vol. II.

ELECTRICAL ENGINEERING 7—Electrical Engineering—Semester 1. (Watkins).
Senior III, V, VIII, VIII(a), (2 and 2)
Prerequisites: Mathematics 6; Physics 5, 6

A brief course covering fundamental principles and tests of the more important electrical equipment and applications.

Text-book: Gray's "Principles and Practice of Electrical Engineering."

ELECTRICAL ENGINEERING 9—Design—Semester 1. (Rhodes).
Senior VII. (0 and 2)
Prerequisites: Drawing 18; Electrical Engineering 2.

An analytical and graphical study of the principles of construction of electrical machinery through a series of problems in design. Students in this subject must also take electrical engineering 5.

Text-book: Gray's "Electrical Machine Design."

ELECTRICAL ENGINEERING 10—Design—Semester 2. (Rhodes)
Senior VI. (0 and 2)
Prerequisites: Electrical Engineering 3; Drawing 2.

Similar to electrical engineering 8 but arranged for electrical engineering students. Students in this subject must also take electrical engineering 4.

Text-book: Gray's "Electrical Machine Design".

Division Rooms and Equipment.

Electrical Instrument Laboratory. The electrical division occupies two single-story brick buildings and includes in its equipment the following instruments and apparatus: Leeds and Northrup potentiometer, with certified standard resistances for measuring both current and potential; Kelvin deka-ampere balance; Weston laboratory standard voltmeter with multipliers; two motor-generator sets; three small motors; fourteen galvanometers; fifteen standard resistance sets; three standard resistance and Wheatstone bridge sets; dial decade standard test set; four meter-wire bridges; four standard condensers; commercial condensers: Weston standard cells; ammeters; voltmeters; rheostats; key switches; storage cells; primary cells, and other miscellaneous apparatus; also a quantity of special apparatus made in the college shops and laboratories.

Dynamo Laboratory. The lecture room has raised seats, and is equipped with instruments, illustration models, and other demonstration apparatus.

This laboratory equipment includes the following:

Voltmeters: twelve Weston, six General Electric Co. Thomson, one Jewell, one Whitney, one Ayrton and Perry, one Hoyt, one Kelvin electrostatic, one Cardew.

Ammeters: Eight Weston, six Weston millivoltmeters with current shunts, twelve General Electric Co. Thomson, one General Electric Co. hot wire, one Westinghouse portable, one Siemens electro-dynamometer, one Jewell.

Wattmeters: Six Weston indicating, five General Electric Co. Thomson indicating, four General Electric Co. Thomson watt-hour meters, one General Electric Co., one Fort Wayne and one Westinghouse induction watt-hour meters.

Miscellaneous Instruments: Tachometers, speed counters, stop watches, current and potential transformers for instruments, frequency meters, etc

Direct Current Dynamos: One 17 kw Lundell, one 15 kw. Mather, one 2.5 kw. Crocker-Wheeler, three 2 kw Kester, one 15 hp. Kester, one 10 hp Kester, two arc light generators, one 4 hp. Westinghouse, one 25 hp. General Electric Co., one 1 kw. General Electric Co., one 7 1-2 kw. Westinghouse.

Alternating Current Apparatus: One 15 kva. General Electric Company single, two, three and six phase revolving field generator, complete with marble switch board and full set of indicating instruments; one 7 1-2 kva. General Electric Company single, two and three phase rotary converter; two 15 kva revolving field synchronous alternators, also one squirrel cage rotor with starting compensator and one phase wound rotor with drum controller and resistor; five General Electric Company single, two and three phase induction motors; one Wagner three phase induction motor; one Wagner repulsion induction motor; three 3 kva and three 5 kva constant potential transformers; one constant current transformer; two 5 kva Scott transformers; General Electric Company condensers and assortment of coils, models, etc.

Miscellaneous: 3-ton portable crane, prony brake, rheostats, drum controllers, circuit breakers, switches, fuse testing apparatus, lightning arresters; etc.

ENGLISH

Professor Daniel

Professor Bradley

Assistant Professor Lane

Instructors—Moffatt, Kinard, Setzler

ENGLISH 1, 2—Composition and American Literature—Semesters 1 and 2. Lane, Moffatt, Kinard, Setzler.

Freshman: All courses: (3 and 0)

This course, while it presupposes a knowledge of English grammar and syntax, gives a review of the subject and, in addition, a course in composition and rhetoric, embracing punctuation, the sentence, diction, and letter writing. Students are taught the use of dictionaries, encyclopedias, and other reference books.

American Literature. One period a week is given to the study ot American literature. The historic development, the influences that gave distinctive characteristics to the literature of each period, the lives of the chief writers, a critical study of selections from each and a class-room reading of many other selections make up the principal work of the course.

Supplementary Reading. A supplementary reading course embracing some of the best works of the leading American authors is required, and written reports are made upon these. Every effort is made to inspire the student with a love for good literature, and special inducements are offered to those who do reading in addition to that required.

Text-books: "Composition for College Students"—Thomas, Manchester, Scott; "Century Handbook of Writing"—"Three Centuries of American Poetry and Prose"—Newcomer-Andrews-Hall; Webster's "Secondary School Dictionary" or a book of higher grade; and ten or more selections from American Literature.

ENGLISH 3, 4—Rhetoric and English Literature—Semesters 1 and 2—(Bradley and Lane)

Sophomore: All courses: (3 and 0)

Prerequisites: English 1, 2.

The work of the first semester comprises a study of the whole composition, the development of the paragraph, a review of punctuation, and a careful study of the grammatical and rhetorical construction of the sentences. The work of the second semester takes up the consideration of the kinds of writing, giving special attention to exposition and description. Many of the themes are discussed in class, and consultations are held with students for individual discussion.

Text-books: "English Composition"—Greenough and Hersey; "Century Handbook of Writing."

Two periods a week throughout the session.

English Literature. The work in English literature comprises a general historic survey of English literature from the Anglo-Saxon period to the Victorian Age. It makes a class-room study of one or more selections from representative authors of each period, and requires parallel reading from other writers. The selections—made from ballads, different forms of poetry, the drama, prose fiction, and the essay—illustrate the stages of the development of the literature. Parallel readings are assigned on which both oral and written reports are required.

Text-books: "Twelve Centuries of English Poetry and Prose" by Newcomer and Andrews; Long's "English Litature"; Webster's "Secondary School Dictionary" or one of higher grade.

One period a week throughout the session.

ENGLISH 5, 6—Technical Writing, Public Speaking, Argumentation—Semesters 1 and 2—(Daniel and Bradley).

Junior: All courses: (2 and 0)
Prerequisites: English 3, 4.

Technical Writing—(Bradley)—A text-book on technical writing is used as a foundation and guide for the work. Students are required to make reports on experiments, to submit plans for construction, to draw specifications and contracts, and to make reports of investigations. Specimens of technical writing are analyzed and studied as models.

Text-books: "Technical Exposition" Thompson, "Century Handbook of Writing;" Webster's "Secondary School Dictionary."

One period a week for first and second semesters.

Public Speaking—(Daniel)—In this course in public speaking a text-book is used for a study of the theory of the subject, but most of the work is practical, stressing correct pronunciation, clear enunciation, and direct natural delivery. Selections are memorized for practice. Original speeches are prepared and delivered. Extemporaneous speaking is required.

Text-book: "The Elements of Public Speaking"—Houghton.

One period a week for the first semester.

Argumentation—(Daniel)—In the course in argumentation instruction is given in selecting, stating, and defining questions for debate, in securing and testing evidence, in making briefs, and in presenting the argument. Models are used for guidance, but original briefs and arguments are required.

Text-book: Foster's "Argumentation and Debating."

One period a week for the second semester.

ENGLISH 7, 8—Journalism, Dramatic Literature—Semesters 1 and 2. (Daniel)

Senior: Elective: (2 and 0)

Prerequisites: English 5, 6

Journalism: Text-books are used as the basis of the course in Journalism which is designed to train students in the preparation of technical articles for the general reader and to help those who expect to become leaders in industrial and economic life to do occasional writing for newspapers and other publications.

Text-books: "Special Feature Articles"—Bleyer; "Newspaper Editing and Writing"—Bleyer.

Two periods a week for the first semester.

Dramatic Literature. The course in dramatic literature gives a brief survey of the development of the drama followed by a study of some of Shakespere's plays and a modern play. Some time is also devoted to a study of present day literature. Occasional papers are required.

Text-books: To be selected.

Two periods a week for the second semester.

ENGLISH 11—Business Law—Semester 1. (Daniel)

Junior: Non R. O. T. C. (2 and 0)

The course in business law seeks to fix legal principles in the student's mind, to lead him to realize the limitations of the legal knowledge of the layman, to give definite ideas as to how laws operate in actual practice, to prepare him to carry on business transactions with such care that he may avoid legal difficulties.

The course begins with a brief survey of the origin, purpose and development of laws; then takes up a study of contracts, sales, agency, negotiable instruments, partnership, corporations, personal, property, and real property.

Problems from actual cases are discussed in class, the students taking opposing sides. Contracts, notes, mortgages, checks and other papers are written and discussed.

Text-book: "Business Law"—Conyington-Bergh

GEOLOGY AND MINERALOGY

Professor Calhoun.

GEOLOGY 1, 2—Agricultural Geology—Semesters 1 and 2. (Calhoun).

Sophomore I: Semester 1 (3 and 0); Semester 2 (0 and 2)

In this course geology is considered in its practical relation to agriculture. The student becomes familiar with the soil-making rocks and minerals, the influence of the various mineral constituents in rocks on the texture of soil, the natural mineral fertilizers, and the formation of soils from rocks . The question of the relation of underground water to wells, springs, artesian wells, to drainage problems, and to soil water is studied. The classes of soils derived from rivers, wind action, and glacier deposits are taken up. The principles and methods of making soil maps are explained. Topographical and geological maps are studied chiefly with reference to agricultural problems.

Text-book: "Agricultural Geology"—Emerson

GEOLOGY 3—Engineering Geology—Semester 1. (Calhoun)

Junior V: (2 and 0)

A brief course in which the practical application of geology to engineering is emphasized. Topographical and geological maps are used in connection with the text book.

Text-book: "Elements of Engineering Geology"—Ries and Watson.

GEOLOGY 5, 6—Chemical Geology—Semesters 1 and 2. (Calhoun)

Senior III: (2 and 0)

In this course structural geology, the theory of ore deposits, and the economic side of geology are emphasized. Special stress is laid upon the action of underground water in forming ores and veins. The theories of the formation of various classes of rocks are considered and special attention is given to that side of historical geology which enables the chemists to recognize certain horizons which carry minerals and ores of economic importance.

Text-book: "Elements of Engineering Geology"—Ries and Watson.

GEOLOGY 7, 8—Mineralogy—Semesters 1 and 2. (Calhoun)

Junior III, Senior I, IX, Elective: (2 and 2)

A comprehensive course in crystallography, physical, and chemical mineralogy, and systematic, descriptive and determinative mineralogy. Crystallography is taught by lectures and text book, with laboratory work based on the collection of models and natural crystals; also physical, optical, and chemical properties of minerals, and descriptive mineralogy covering the more important species. Much of the laboratory work is devoted to the determination of minerals by means of their physical and chemical properties, by comparison with labeled specimens of the systematic collection, and by the use of unlabeled collections for practice in identifying minerals at sight. This course gives a sufficient knowledge of mineralogy for the geologist, metallurgist, mining engineer, or chemist and will enable the student to identify readily all but the rarer minerals.

Text-book: "Mineralogy"—Moses and Parson.

GEOLOGY 10—Meteorology—Semester 2. (Calhoun)

Senior I, IX, Elective: (2 and 0)
Junior, All Courses Non R. O. T. C. (2 and 0)

A course designed to give the student an adequate conception of the use of meteorological instruments, weather maps, and the general principles of meteorology and climatology as applied to the growing of crops.

Text-book: "Agricultural Meteorology"—Smith.

Division Rooms and Equipment

The Division of Geology and Mineralogy occupies three rooms on the second floor of the Agricultural Building.

The systematic collections contain about 2,500 labeled specimens of rocks, minerals, and fossils. These are exhibited in glass cases in the laboratory and the museum, and are available to students and the public. A collection of the minerals and rocks of South Carolina is a prominent feature of the exhibit. There is also an unlabeled collection of minerals for practice in identifying species at sight, and unlabeled collections of the most important minerals are provided for determinative work in the laboratory.

The laboratory is supplied with water, gas and all apparatus and reagents necessary for the determination of minerals by means of their chemical and physical properties.

The class room is supplied with large physical wall maps of the world and of all continents, a complete series of topographic contour maps, furnished by the United States Geological Survey, an 18 inch terrestrial globe, a 20 inch relief globe, a set of geological and geographical relief models, and over a thousand lantern slides, stereographs, and photographs.

HISTORY

Professor Holmes

HISTORY 1—American Government—Semester 1—(Holmes and Brearley).

Freshman: All Courses: (3 and 0)

This course presupposes familiarity with the elementary principles of civics as given in the high schools.

The course develops the historical background of our government, traces the growth of the Constitution, describes the actual workings of the various elements of our government, and gives special attention to the defects of our system and to suggested remedies.

A supplementary reading course embracing the standard works on American government is required, and written reports are made upon these.

Text-book: Munro's "The Government of United States."

HISTORY 2—Modern and Contemporary History—Semester 2—(Holmes and Brearley).

Freshman: All courses: (3 and 0)

This course requires an intensive study of European history during the nineteenth and twentieth centuries. Emphasis is laid on the social and economic changes, on the development of nationalism and democracy, on economic imperialism, on the causes and results of the World War, and on world relations.

A feature of the course is the assignment of simple problems to students, who are required to find sources of material and to make written or oral reports of their reading.

Text-book: Schapiro's "Modern and Contemporary European History."

HORTICULTURE

Professor Newman

Associate Professor Gardner

HORTICULTURE 1—Fruit Growing—Semester 1. (Gardner)

Junior 1: (2 and 2).

General study of fruits with particular reference to the home orchard sites, soils, propagation, planting, pruning, spraying, and varieties.

Text-book: "The Principles of Fruit Growing"—Bailey.

Required equipment—One pair hand pruning shears and 1 budding knife.

HORTICULTURE 2—Olericulture—Semester 2. (Gardner)

Junior 1: (1 and 2.)

Principles and practices relative to the production of vegetables for home use. Construction and management of cold frames and hotbeds. Practical work in planting and caring for a garden.

Text-book: "Vegetable Gardening"—Watts.

HORTICULTURE 3—Systematic and Commercial Pomology—Semester 1. (Gardner)

Senior I, Elective: (2 and 2)
Systematic—1st half 1st Semester.
Commercial—2nd half 1st Semester

Systematic includes the classification, description, and nomenclature of native and sub-tropical fruits; identification with reference to relationship and natural classification of varieties and judging and displaying of fruits.

Textbook: Systematic Pomology—Waugh.

Commercial deals with practical problems pertaining to fruit growing; establishment and management of large commercial orchards, inter-cropping, cover crops, marketing, etc. Commercial orchards visited.

Text-book: "Productive Orcharding"—Sears.

Required equipment: One pair pruning shears, saw, and budding knife.

HORTICULTURE 4—Small Fruits—Semester 2. (Gardner)

Senior 1, (Elective except for Horticultural Majors) (2 and2)

Propagation, culture, harvesting and marketing of the blackberry, dewberry, grape, raspberry, strawberry, and other small fruits.

Text-book: "Productive Small Fruit Culture"—Sears.

HORTICULTURE 6—Landscape Gardening—Semester 2 (Newman)

Senior 1 Elective: (2 and 2)

A study of the principles of landscape art with reference to the improvement of home and school grounds and park areas. Mapping, designing and a study of decorative plants, their indentification and adaptation to landscape work.

HORTICULTURE 7, 8—Truck and Market Gardening—Semester 1 and 2 (Gardner)

Senior 1 Elective: (2 and 2)

Principles and practices of commercial vegetable growing on a large scale as well as forcing crops in the greenhouse and in frames. Special attention is given to the trucking practices in this State, with particular reference to the development and management of truck farms and market gardens, planting, cultivation, fertilization, harvesting, grading, and marketing. This course combines both systematic and commercial study. Commercial sections visited.

Text-book: "The Principles of Vegetable Gardening,"—Bailey
"Vegetable Forcing,"—Watts.

HORTICULTURE 9 —Plant Propagation and Nursery Management —Semester 1. (Newman)

Senior 1 Elective: (2 and 2)

This course includes the study of methods of propagating fruit trees, shrubs and the various kinds of flowering plants. The student is given practical instruction in the propagation of these plants in the field as well as in the greenhouse. The nursery consists of plantings of various kinds of deciduous and evergreen shrubs as well as the pome and stone fruits.

Text-book: "The Nursery Manual"—Bailey.

HORTICULTURE 10 —Thesis.—Semesters 1 and 2.

Senior 1.

Special subject requiring independent investigations by students specializing in Horticulture. Results submitted in written form.

HORTICULTURE 101, 102—Fruit and Vegetable Growing—Semester 1 and 2 (Gardner)

Two-year Agr. XII: (2 and 2)

First semester devoted to the growing of fruits for home use, and includes a study of orchard sites, planting, propagation, pruning, and spraying In the second semester the principles and practices involved in the growing of vegetables for home use are taken up. A garden is planted and cared for by the students

Text-book: Horticulture—Davis

Required Equipment: 1 pair of hand pruning shears

"Vegetable Gardening"—Watts.

Division Rooms and Equipment

The division is well equipped with orchards, greenhouses, gardens, and vineyards. The facilities for instructional purposes include ample lecture rooms laboratories, and practice workhouses thereby making it possible for the division to offer students excellent oportunities for pursuing a course in Horticulture.

MATHEMATICS

Professor Martin

Professor Shanklin

Associate Professor Hunter

Assistant Professor Johnstone

Instructor Rankin

MATHEMATICS 1—Plane Trigonometry—Semester 1—(Shanklin, Johnstone, Rankin)
Freshman: I, IX, Elective: (3 and 0)
Prerequisite: Algebra through quadratics, Plane Geometry.

This course covers plane trigonometry.

Text-book: Crawley and Evans-"Trigonometry."

MATHEMATICS 2—Mathematics for Agriculture and General science—Semester 2. (Shanklin, Johnstone, Rankin).
Freshman: I, IX, Elective:
Prerequisite: Mathematics 1.

This course embraces the study of graphical representations of statistical data, statistics, small errors, conic sections, empirical equations, progressions, annuities, averages and correlations.

Text-book: "Mathematics for Agriculture and General Science"—Kenyon and Lovitt.

MATHEMATICS 3—Plane Trigonometry—Semester 1—(Shanklin, Hunter, Johnstone)
Freshman: II, V, VI, VII, VIII: (5 and 0)
Prerequisite: Algebra through quadratics, Plane Geometry.

This course covers plane trigonometry, supplemented by numerous related problems and exercises.

Text-book: Crawley and Evans—"Trigonometry."

MATHEMATICS 4—College Algebra—Semester 2. (Shanklin, Hunter, Johnstone)

This course embraces a thorough drill in advanced algebra with especial emphasis on the subjects which come up in the subsequent courses in mathematics.

Text-book: Fite's "College Algebra."

MATHEMATICS 5—Analytic Geometry—Semester 1. (Martin, Shanklin, and Hunter).
Sophomores: II, III, V, VI, VII VIII, IX: (4 and 0)
Prerequisite: Mathematics 3, 4.

This course comprises a study of cartesian and polar systems of coordinates, discussion and construction of loci, the straight line, transformation of coordinates, the circle, parabola, ellipse, hyperbola, general equation of second degree involving two variables, tangents and normals, higher plane curves, equation of the plane, the straight line in space, and surfaces of the second order.

Text-book: "Analytic Geometry"—Wilson and Tracy.

MATHEMATICS 6—Differentials Calculus—Semester 2. (Martin, Shanklin, Hunter).

Sophomores: II, III, V, VI, VII, VIII, IX: (4 and 0)

Prerequisite: Mathematics 5.

A study of the differentiation of algebraic and transcendental functions, successive differentiation and development of functions, functions of two variables, tangents, normals, and asymptotes, applications of the derivative in mechanics.

Text-book: "Differential and Integral Calculus"—Osborne.

MATHEMATICS 7—Integral Calculus—Semester 1. (Martin, Hunter).

Juniors: II, IV, V, VII, VIII, IX Elective: (3 and 0).

Prerequisite: Mathematics 6.

This course in integral calculus gives instruction in elementary forms of integration, integration of rational fractions, the definite integral, successive reductions, integration of functions of two variables, geometric applications, multiple integrals, and practical problems arising in engineering subjects.

Text-book: "Differential and Integral Calculus"—Osborne.

MECHANICAL ENGINEERING

Professor Earle

Professor Kavanaugh

Associate Professor Carpenter

Associate Professor Shubert

Instructor Watkins

MECHANICAL ENGINEERING 1, 2—Mechanics—Semesters 1 and 2. (Aegerter)

Junior VI, VII, IX. (Elective): (3 and 0)

Prerequisites: Mathematics 6; Physics 5, 6.

The subjects taught are composition and resolution of forces; solution of force systems; couples; centeroids and centers of gravity; friction; moment of inertia; rectilinear motion; curvilinear motion; rotation; combined translation and rotation; work and energy; impulse, momentum, impact.

Text-book: Hancock's "Applied Mechanics for Engineers," revised and rewritten by N. C. Riggs.

MECHANICAL ENGINEERING 3—Mechanics—Semester 1. (Aegerter)

Junior II, V: (3 and 0)

Mathematics 6; Physics 1, 2.

This course is similar to mechanical engineering 1, 2, but is arranged to suit the needs of students in courses II and V, and precedes strength of materials and graphic statics.

MECHANICAL ENGINEERING 4—Mechanical Engineering—Semester 2. (Kavanaugh, Carpenter, Shubert and Watkins).

Junior V, VI, VII, VIII: (3 and 2)

Prerequisite: Mathematics 7

A general survey of the field of power engineering, taking up the essentials for the production of power, and the principles governing the action of various mechanical motors, and the comparison of their performance. Steam power includes fuels, combustion, theory of steam generation, boilers, boiler auxiliaries, steam turbines, auxiliaries for steam engines and turbines and the testing of steam power equipment. Gas power includes a study of internal combustion engines together with their fuels, gas producers and various auxiliaries connected with internal combustion engine power plants.

Application of steam and gas power to locomotives, automobiles, trucks and tractors.

Introductory to mechanical engineering and embracing, (a) the study of calibration of leading types of instruments and apparatus used in mechanical engineering, and (b) elementary tests of materials and machinery.

Text-books: Potter and Calderwood's "Elements of Steam and Gas Power Engineering." Moyer's "Power Plant Testing."

MECHANICAL ENGINEERING 5, 6—Mechanical Engineering—Semesters 1 and 2. (Kavanaugh and Carpenter).

Senior VII: Semester 1 (5 and 4), Semester 2 (5 and 5)

Prerequisite: Mechanical Engineering 4.

First semester: Thermodynamics of gasses, steam, etc. In this is taken up heat and heat power plants, laws of gasses; expansion and compression, entropy, gas and vapor cycles, properties of steam power, efficiency and performance of engines, both theoretical and actual, and methods of increasing the efficiency of the actual steam engine; steam engine parts, and types of steam engine governors, valve gears of steam engine, indicator diagrams for both simple and compound engines, performance of steam engine.

Second semester: Thorough study of steam turbines, including design; external and internal combustion engines, fuels, combustion, boilers, superheaters, draft and draft apparatus, utilization of waste heat, heat transfer, gas producers, producer gas, feed water heaters, condensers and auxiliaries; purification of water, power plants, compressed air, refrigeration. During the whole course many problems covering principles involved are worked out. A graded series of experiments upon the quality of lubricants, strength of engineering materials, and operating characteristics of representative types of steam, internal combustion, and hydraulic machinery. During the second semester a number of elaborate and highly technical experimental problems are undertaken, problems of special interest to the mechanical engineer.

Text-books: Hirshfield and Barnard's "Elements of Heat Power Engineering." Moyer's "Power Plant Testing."

MECHANICAL ENGINEERING 7, 8—Mechanical Engineering— Semesters 1 and 2. (Kavanaugh and Carpenter).

Senior VI: (3 and 2)

Prerequisite: Mechanical Engineering 4.

First semester: Study of thermodynamics of gasses, properties of steam, entropy, valve gears, indicators, losses in engines, compound engines, superheated steam and its application, steam jackets, and injectors.

Second semester: Condensers feed water heaters, governors, turning efforts on crank shaft, fly wheel design, study of details of engines, balancing of engines, performance of engines, locomotives, steam turbines, their application of design, refrigeration, and ice plants, power plant auxiliaries.

Laboratory similar to that given in mechanical engineering 5, 6.

Text-books: Ripper's "Steam Engine, Theory and Practice." Moyer's "Power Plant Testing."

MECHANICAL ENGINEERING 9, 10—Mechanical Engineering— Semesters 1 and 2. (Kavanaugh and Carpenter).

Senior V: Semester 1 (3and 2) Semester 2 (3 and 0)

Prerequisite: Mechanical Engineering 4.

This course is very similar to mechanical engineering 4 except that the laboratory work is curtailed and suited more to the needs of the civil engineer.

Laboratory similar to that given in mechanical engineering 5, 6.

Text-books: Ripper's "Steam Engine, Theory and Practice." Moyer's "Power Plant Testing."

MECHANICAL ENGINEERING 11—Mechanical Engineering— Semester 1. (Kavanaugh and Carpenter)

Senior VIII; (3 and 2)

Prerequisite: Mechanical Engineering 4.

This course is designed to briefly cover the fundamentals of mechanical engineering most necessary for the textile and chemical engineer to know. The course is somewhat similar to mechanical engineering 7, 8, but shorter.

Text-books: Ripper's "Steam Engine, Theory and Practice." Moyer's "Power Plant Testing."

MECHANICAL ENGINEERING 13—Design—Semester 1: (Carpenter)

Senior VI: (0 and 2)

Prerequisites; Drawing 18. Mechanical Engineering 4.

This course is similar to mechanical engineering but briefer and especially arranged for electrical engineering students.

MECHANICAL ENGINEERING 14—Design—Semester 2. (Carpenter)

Senior VII: (0 and 2)

Prerequisites: Drawing 18; Mechanical Engineering 4.

An analytical and graphical study of the fundamental principles of construction of various classes of certain machinery such as the steam engine, pumps, steam turbines, etc., by the solution of certain problems in design.

Division Rooms and Equipment

The laboratory is situated on the ground floor of the engineering building, and occupies a room 37 feet by 108 feet, and a room 37 feet by 50 feet, and contains the following equipment:

For Steam Engineering.—One 15 hp. horizontal locomotive type boiler; one 6 hp. Erie, plain slide valve steam engine, throttling governor; one 5 vertical engine built by students; one 15 hp. Payne high speed automatic cut off engine; one 40 hp. McEwen engine designed to give very close regulation of speed; one Corliss cross compound engine, aranged to run either condensing or noncondensing and with either or both cylinders with high pressure steam; one 7 kw. Curtis steam turbine non-condensing, direct connected to a two pole interpole direct current compounded generator, with necessary switchboard and instruments; one Wheeler surface condenser, with combined air and circulating pumps; one separately fired Foster superheater; one set steam gauge testing apparatus; one Carpenter's separating calorimeter; two Carpenter's throttling calorimeters; six steam engine indicators of various makes; four injectors; two draft gauges; seven steam gauges.

For Hydraulic Engineering—One DeLaval centrifugal pump 100 g. p. m. against 100 feet head; one power triplex pump; one Pelton water motor; one hydraulic ram; three duplex pumps of different makes; one gear pump; two weirs; two hook guages; one pair scales for meter testing.

For Compressed Air—One Clayton air compressor, water jacketed; one improved air motor; one Sirroco blower direct connected to D. C. variable speed motor.

For Fuel and Lubricants.—One Carpenter's coal calorimeter with scales, balances and oxygen generating device; one standard viscosimeter; one Thurston friction tester; one Saybolt (U. S. Standard) viscosimeter; one open flash and fire tester; one Emerson bomb coal calorimeter with adiabatic jacket.

For Gas Engines.—One 5hp. Otto gasoline engine; one 7 hp. Alamo gasoline engine, and Delco outfit, one 3 hp. Meitz and Weiss oil engine.

Miscellaneous—One 6 hp. transmission dynamometer, graduated to read horse-power direct and built by students; eight platform scales; four spring balances; seven mercury thermometers; one electrical resistance thermometer; two Bristol thermo-couples for reading temperatures to 2,000 and 2,900 degrees respectively; planimeters. All apparatus is so arranged that it may be used for separate or combined tests. Besides the apparatus in this room, the apparatus in the power station, pumping station and refrigeration plant are available for instruction and tests. For lists of equipment see description of buildings.

MILITARY DEPARTMENT

Lt. Col. Cole, Professor

Captain Lee, Assistant Professor.

Captain Braden, Assistant Professor

Captain Higgins, Assistant Professor

Captain May, Assistant Professor.

Lieut. Emery, Instructor

MILITARY SCIENCE 1, 2.—Military Science and Tactics,
Freshman Class, All Courses: (0 and 3)

Infantry Drill Regulations; Close and extended order; Ceremonies.

Rifle Marksmanship: Nomenclature and care of rifle; Gallery practice; Range Practice.

Scouting and Patrolling: Principles governing composition, formation, and operation.

Physical Training: Setting-up exercises; Mass Games; Mass Athletics.

Military Courtesy. Principles of Military discipline; The military courtesies of the Army of the United States.

MILITARY SCIENCE 3, 4—Military Science and Tactics

Sophomore Class, All Courses: (o and 3)

Map reading and military sketching; visibility problems ,reading of maps making of maps.

Infantry Weapons; the bayonet, the automatic rifle; hand and rifle grenade.

Musketry; weapons of infantry squad; range estimation; fire discipline; fire control; control of movement; conduct of fire in the attack and the defense; combat practice.

Command and leadership; exercise of command appropriate to non-commissioned officers.

Military hygiene, sanitation and first aid; personal hygiene; first aid to injured, cause of disease; selection and protection of drinking water.

MILITARY SCIENCE 5, 6—Military Science and Tactics. Semesters 1 and 2.

Junior Class, R. O. T. C.: (2 and 3)

Field Engineering; trenches, obstacles; shelters; machine gun emplacements; observation posts; working parties; concealment and camouflage.

Accompaning weapons; machine gun; 37 millimeter (one-pounders;) the light mortar.

Military Law and Rules of Land Warfare; definition; sources and kinds military jurisdiction; classification and composition of courts; exercise of military jurisdiction; persons subject to military law; articles of war explained; procedure before trial; procedure of courts-martial; evidence; sentences; punishment without trial; rules of land warfare; moot court exercises.

Command and leadership; exercise of command appropriate to grades of Sergeant and Lieutenant.

Infantry drill regulations; the battalion and the regiment.

MILITARY SCIENCE 5a, 6a—Military Science and Tactics.—Semester 1 and 2

Junior Class, Non-R. O. T. C.: (0 and 3)

Same as Course 5, 6 but covering only three-fifths of the work.

MILITARY SCIENCE 7, 8—Military Science and Tactics.—Semesters 1 and 2.

Senior Class R. O. T. C.: (2 and 3)

Tactics; general view of the organization and conduct of the battalion and higher units; principles governing the organization; armament. equipment, and conduct of the rifle, machine gun, Howitzer, and headquarters companies in offensive and defensive combat; tactical principles governing the conduct of the platoon and larger units in offensive and defensive combat; principles governing the employment and details of the conduct of covering detachments in open and position warfare; exercises and problems on sand table, map and terrain.

Military history; American military history including the World War; the sources of authority for our military establishment; development of the military resources; the state of national preparedness for war at a critical period in the history of the United States; the cost of American wars in relation to national unpreparedness.

Administration; preparation of papers pertaining to the administration of a company.

Command and leadership; exercise of command appropriate to the grades of Lieutenant to Major.

Pistol marksmanship.

MILITARY SCIENCE 7a, 8a—Military Science and Tactics.—Semester 1 and 2.

Senior Class, Non-R. O. T. C.: (0 and 3)

Same as Course 7, 8 but covering only about three-fifths of the work.

MODERN LANGUAGES

GERMAN 1, 2.—(Lippincott)

Junior Class; Course IX, (Elective)

The essentials of German grammar; collateral reading; conversation.

Text-book: Bacon's "New German Grammar."

Course IX: Three periods a week throughout the session.

GERMAN 3, 4—(Lippincott)

Senior Class; Courses IX (Elective)

German prose composition; study of German words and idioms; German-English cognates; translation of literary and scientific German; conversation.

Text-books: Bacon's "German Composition," Manley-Carl Schurdtz's "Lebenserinnerungen," Gerstaecker's "Germelshausen," Wallentin's "Grundzuge der Naturlehre," or texts of equal dificulty.

Three periods a week throughout the session.

FRENCH I—(Moffatt)

Junior Class: Course IX. (Elective)

The essentials of French grammar; collateral reading; translation of easy French prose; French prose composition.

Three periods a week throughout the session.

FRENCH II—(Moffatt)

Senior Class: Course IX (Elective)

French syntax; French verbs; French idioms and prepositions; translation of literary and scientific French.

Text-books: Cortina's French Method; De Nonvert's La Belle France; Herdler's Scientific Reader.

Two periods a week throught the session

SPANISH I—(Moffatt)

Junior Class: Course IX (Elective)

This course is an introduction to the Spanish language consisting of drill in grammar, translation from Spanish into English and from English into Spanish, and conversation. Emphasis is laid on pronunciation, accent, and idiom.

Text-books: "A Spanish Grammar" by Hills and Ford, and "A Spanish Reader" by Bransby.

Three periods a week throughout the session.

SPANISH II—(Moffatt)

Senior Class: Course IX (Elective)

This is a continuation of Spanish—I with the addition of more reading and conversation. It takes up also a study of pamphlets, bulletins and books concerning the Latin-American countries, especially from an industrial and commercial point of view.

Text-books: The same as in Course I and a Spanish newspaper.

Two periods a week throughout the session.

PHYSICS

Professor Godfrey

Assistant Professor Hart

Instructors Muntz and Rankin

PHYSICS 1, 2.—**General Physics**—Semesters 1 and 2. (Hart, Muntz, and Rankin)
and Sherman).

Freshman: II, V, VI, VII, VIII: (2 and 2).

Prerequisite: Entrance mathematics: Entrance physics 1 unit.

This is an introductory course in general physics for engineering students. Its object is to make the student familiar with the fundamental principles of physics and to lay the foundation for subsequent work. Mechanics, heat, light, electricity, and magnetism are studied with emphasis upon the problem work. In the laboratory elementary quantitative experiments in these subjects are assigned. Mimeographed notes are used, and such accuracy as the conditions permit is insisted upon so that the student may acquire some idea of modern experimental methods. The curve plotting method of showing results is taught.

Text-book: "Concise Physics."—Hoyt.

PHYSICS 1a, 2a.—General Physics—Semesters 1 and 2. (Hart, Muntz and Rankin)

Freshman: II, V, VI, VII, VIII: (2 and 2)

Prerequisite: Entrance mathematics.

This course is similar to that described above, but does not require high school physics as a prerequisite. The laboratory course is the same but the study of light and a part of electricity is omitted in the class room work so that sufficient time may be given to mechanics.

Text-book: "A Text-book of Physics"—Spinney.

PHYSICS 3, 4—Principles of Physics—Semesters 1 and 2. (Hart)

Sophomore: I, III, IX: (2 and 2)

Prerequisite: Mathematics 1, 2.

This is a general course in college physics arranged particularly to meet the needs of students in agriculture and chemistry. The physical laws in mechanics, heat, light, electricity, and magnetism are studied with reference to their application in these courses. Particular attention is given to the properties of matter and to the principles of operation and adjustment of instruments used in later work in physical chemistry and agriculture. Directions for the experiments assigned are given in mimeographed notes.

Text-book: "The Elements of Applied Physics"—Smith.

PHYSICS 5, 6—College Physics—Semesters 1 and 2. (Godfrey)

Sophomore: V, VI, VII: (3 and 0)

Prerequisite: Physics 1, 2, or 1a, 2a; and Mathematics 3, 4.

This course is a continuation of physics 1, 2 for engineering students. Lectures with demonstrations are given covering the fundamental principles given in the text, and the assigned problems are chosen with special reference to the application of physical laws in engineering work. The course covers the subject mattter of the text.

Text-book: "General Physics"—Ferry.

PHYSICS 7, 8—Laboratory Physics—Semesters 1 and 2 (Godfrey and Hart)

Sophomore: V, VI, VII, VIII: (0 and 2.)

Prerequisite: Physics 1, 2, or 1a, 2a; and Mathematics 3, 4.

This work includes careful quantitative measurements in mechanics, heat, light, electricity, and magnetism. It is the equivalent to that described in the average college manual of physical measurements. The student is required to understand the fundamental principles involved in the experiments and to show by his results some skill in physical manipulation and careful method in the calculations required. In much of the work he is thrown upon his own resources and expected to develop some confidence in the correctness of his work. The report includes some discussion of the limitations of the method used and its accuracy. This course is concurrent with Physics 5, 6.

Text-book: Mimeographed notes.

PHYSICS 9, 10—Advanced Physics—(Godfrey and Hart)

Junior and Senior: IX, (Elective): (3 and 2)

Prerequisite: Physics 5, 6, 7, 8.

This course is for students specializing in Physics on topics selected to suit the plans of the students taking it for either advanced engineering or graduate work in science. A careful study of only a few topics is attempted. Projects in molecular physics, vectorial mechanics, thermodynamics, radiation, and electro-magnetic waves are suggested. Special facilities are available for experiments with spark discharge, damped and undamped electric waves and various types of oscillating circuits.

PHYSICS 11, 12—Principles of Physics—(Godfrey and Muntz)

Junior and Senior: IX: (2 and 2.)

Prerequisite: Physics 3, 4, or the equivalent.

Students intending to teach are given a course covering the fundamentals of general Physics with suggestions regarding methods of presentation and demonstration, organization of laboratory work, and objects to be sought in teaching elementary physics or general science. The laboratory work is a continuation of the sophomore course with more advanced experiments. A wide choice of experiments is given so that the course, while primarily intended for teachers, is also suited to the needs of students in general science not intending to teach.

Text-book: "College Physics"—Kimball.

PHYSICS 14—Elementary Descriptive Astronomy—Semester 2. —**(Godfrey).**

Junior: V: (0 and 2)

Prerequisite: Physics 5, 6 and Mathematics 5, 6.

This is a brief course in general astronomy arranged with special reference to the work of civil engineers. The motions of the heavenly bodies are studied and some time is given to the general facts of descriptive astronomy.

Text-book: "Astronomy"—Jacoby.

Division Rooms and Equipment.

The Physics Division is located on the ground floor of the Chapel Building. The two lecture rooms, each seating eighty-four students, are equipped with individual tablet arm chairs on a stepped floor and supplied with profection equipment. There are three large laboratories, a dark room, an instrument room, storage room, and Division office room. The lecture rooms and laboratories are equipped with reinforced concrete tables on concrete foundation. They are supplied with gas, water, and air pipe lines throughout and have electrical connection with switchboard in battery and generator room. The division is provided with a great variety of apparatus for both lecture and laboratory purposes, to which additions are made each year.

SHOP WORK

Associate Professor Shubert

Associate Professor Marshall

Instructor Freeman.

SHOP WORK 1, 2—Forge Work—Semesters 1 and 2. (Freeman)

Freshman V, VI, VII, VIII: (0 and 2)

This course embraces all the fundamental principles of forge work, such as, drawing out, upsetting, bending, shouldering, punching and welding in iron and mild steel.

During the first semester the work is done in wrought iron and mild steel and each exercise is carefully explained and demonstrated by the instructor, with full discussion by student and teacher.

The second semester is devoted to tool making and tempering steel. Special lectures are given on the manufacture and handling of iron and tool steel, and with emphasis on making, grinding and polishing tools.

Each student is supplied with working drawings and a complete outfit for doing the work on the plan that is found in any good commercial plant.

SHOP WORK 3—Forge Work—Semester 1.—(Freeman)
Freshman II: (0 and 2)

This course is identical with shop work 1 for the first semester.

SHOP WORK 5, 6—Forge Work—Semesters 1 and 2. (Freeman)
Freshman I, III, IX: (0 and 2)

This course is identical with shop work 1 for the first semester. During the second semester, the work as more directly related to the upkeep of a farm is given, such as repairs on machinery and farm equipment, special attention being given to welding and brazing in the open fire.

SHOP WORK 7, 8—Foundry—Semesters 1 and 2. (Freeman)
Sophomore VI, VII, VIII: (0 and 2)

This course is designed to give the student a comprehensive idea of the principles of foundry practice, as related to the trades, and the importance of this branch of industry, as to its relation to engineering work.

The first semester is taken up with such things as moulding sands, flasks and the use of the tools used in the trade, various plain moulding from simple patterns, ramming, gating, venting and facing moulds.

The second semester covers the mixing of metals, melting and pouring moulds, core making and its connection with foundry practice, also, notes and talks on the physical and chemical properties of the various ferrous metals. A portion of this time is spent with brass work, dealing with all of the non-ferrous metals.

SHOP WORK 9—Industrial Arts—Semester 1. (Freeman)
Junior IX. (0 and 2)

Work is given covering the fundamentals underlying foundry practice, such as tempering sand, mixing facings, making dry sand cores, and making iron and brass in green sand.

SHOP WORK 11.—Industrial Arts—Semester 1. (Freeman)
Junior IX. (Elective): (0 and 2)
Prerequisite Shop Work 9.

This course is devoted to the history of foundry practice, the study of cupola construction, mixing metals, classification of patterns, and the methods of handling foundry work in the shop.

Text-book: **Wendt's "Foundry Work" supplemented with notes** and talks.

SHOP WORK 13, 14—Machine Shop. Semester 1 and 2. (Shubert)
Junior VI, VII, Semester 1. (0 and 5) Semester 2 (0 and 3)
Prerequisite: Shop work 2, 8.

This course begins with chipping, filing, and scraping, which involves the use of the lay-out table, surface gage, center punch, hammer, file, chisel, scraper, surface plate, square, and straight edge, which concludes the term of bench work.

The students then take up the various operations on machine tools, which have been previously demonstrated by the instructor. All measurements of machine tool operations come to very close limits.

In this course the student is given a practical working knowledge of machine shop tools, and of directing machine shop work efficiently. One hour of the weekly period is used by the instructor in demonstrating all operations together with talks on uses and care of precision tools. This is to familiarize the student with the difficulties that arise in his practical machine shop work.

SHOP WORK 15—Machine Shop. Semester 1. (Shubert)
Junior V; (0 and 3)
Prerequisites: Shop work 2, 8

Essentially the same as shop work 13, 14 but less extensive.

SHOP WORK 17, 18—Wood Work—Semesters 1 and 2. (Marshall)
Fresh V, VI, VII, VIII: (0 and 2)

This course includes both bench and lathe work and is designed to familiarize the student with tools and machinery commonly used in wood work. The latter part of this course is devoted to the study of the best methods of finishing.

Text-book: Lefax Note Book.

SHOP WORK 19—Wood Work.—Semester 1.—(Marshall)
Freshman II: (0 and 2)

This course is identical with shop work 17 for the first semester.

SHOP WORK 21, 22—Pattern Making—Semesters 1 and 2. (Marshall)
Sophomore VI, VII: (0 and 2)
Prerequisite: Shop work 18.

This course consists of exercises in pattern making with special reference to the principles involved. It is planned to outline to the student a general survey of the most suitable materials, the special tools, and the fundamental processes of the trade, together with the relations of the allied departments—particularly those of the foundry. The student is required to make, from machine drawings, full sized patttern drawings, making the necessary allowances for finish, shrinkage and draft. The course is further illuminated by lectures on the metal trades and the manufacture of iron products, so that the pupil learns exactly what part pattern-making plays in the commercial world.

Text-book: "Wood Pattern Making."

SHOP WORK 23, 24—Industrial Arts—Semesters 1 and 2. (Marshall)

Junior IX: (Elective) (0 and 2)

This course is designed for students who wish to teach manual training. Special emphasis is laid on good form in the use of wood working tools and machinery. The course is more intensive and more exacting than that required of the regular engineering students.

A proportional part of the course is given to the study and application of the latest and best finishes, including varnishes, stains, enamels, paints and polychrome.

SHOP WORK 25, 26—Industrial Arts—Semesters 1 and 2. (Marshall)

Senior IX: (Elective) (0 and 2)

Prerequisite: Shop work 14.

This course includes lectures and assigned work in advanced cabinet work and pattern making. Some time is given in practice teaching and observation, each student being assigned as assistant in some of the shop classes throughout the entire session.

SHOP WORK 101—Forge Shop—Semester 1. (Freeman)

Two-Year Agr. XII: (0 and 2)

A course devoted to problems encountered in the upkeep of the farm. Exercises in tempering, riveting, plow sharpening, and repairs to farm machinery are given.

SHOP WORK 102.—Wood Shop—Semester 2. (Marshall)

Two-Year Agr. XII: (0 and 2)

The aim of this course is to teach the fundamentals of wood work as applied to construction and repair on the farm. The students are given practice in the use of saws, planes, chisels, and other common tools.

Equipment

The **Forge Shop** occupies a room 37 by 98 feet. The equipment is installed under two separate systems. One system consists of 18 Buffalo down-draft forges; 18 Hay Budden anvils equipped with all necessary small tools; a 60-inch exhaust fan; a No. 4 direct-connected pressure blower; a drill press; an emery grinder; a bending cone; a Buffalo iron shear; two swage blocks; a vise and work bench. The other system consists of 18 Sturtevant down-draft forges; 18 Hay Budden anvils thoroughly equipped with small tools; a 60-inch exhaust fan, direct connected; and a blackboard for special drawings.

The **Foundry** occupies a space of 43 by 76 feet, and is free from posts and other obstructions. It is equipped with a 26-inch Victor Colliau's cupola; a No. 7 pressure blower; a Millett core oven; a large Paxon brick core oven; a two-ton post crane; tools for eighteen students; also a case of special tools, a full equipment of hand, bull, and truck ladles and a full line of foundry flasks.

The brass foundry is equipped with an 18-inch furnace; a drying stove; clamps, flasks, tongs, and graphite crucibles for making and pouring molds. Also one Ferro-fix brazing machine with full equipment for doing diversified cast iron brazing.

The **Machine Shop** occupies the ground floor and part of the basement of the southwest wing of the engineering building, the main floor being 45 by 100 feet. The equipment consists of the following: suitable benches and vises for chipping, filing, and assembling of machines, one 18-inch by 12 foot engine lathe, one 18 inch by 8 foot engine lathe, eleven 14 inch by 6 foot engine lathes, one 14 inch by 8 foot speed lathe, five direct motor drive 14 inch by 5 foot engine lathes, two universal milling machines, one 22 inch by 6 foot planer, one 14 inch shaper, one 10 inch slotter, one 10 inch by 30 inch universal grinder, one universal tool and cutter grinder, one twist drill grinder, one 18 inch floor grinder, two 9 inch floor grinders, one 36 inch wet floor grinder, one 28 inch vertical drill press, one 18 inch vertical drill press, one power hack saw, one down draft forge equipment, one oil burning tempering furnace, a tool room containing hand tools, gages and fixtures.

The **Wood Shop** division consists of two shops. The instructional shop is devoted to class room work for freshman and sophomore students. The class room measures 50 by 100 feet and contains thirty-two speed lathes, fully equipped; fifty work benches, each supplied with a full set of tools; one universal saw; one bench joiner and planer; one band saw; one jig saw; one motor-driven disc sander; two oil stone grinders; one shaper and carving machine; one universal trimmer;—all machines and tools being of the latest approved design for class room work in wood work and pattern making. This class room is served by a convenient stock room, and tool room.

The commercial wood shop is equipped with planing mill machinery consisting of a double-roll planer, one rip saw, one cross cut table saw, one swinging cut-off saw, one lathe with twelve-foot bed, one joiner, one molding machine, one double-headed shaper, one mortising and boring machine, one drum sand papering machine, and an asortment of benches, clamps, glue pots, etc. This shop is 40 x 100 feet and is driven by a 20 hp. electric motor. A lumber shed and steam dry kiln adjoin.

TECHNOLOGY OF FABRICS

Professor Eaton

Assistant Professor Cheatham

TECHNOLOGY OF FABRICS 1—Fabric Construction—Semester 1. (Eaton)

Sophomore VIII: (2 and 0)

A study of yarns used in fabrics. Yarn calculation. Classes of textile fabrics. Classes of woven fabrics. Method of representing weaves. Weaves used in standard fabrics. Diameters of yarns. Maximum ends and picks per inch. Effect of yarn twist. Shrinkage and take-up. Reed calculations. Air space and ends per dent in reeds. Cloth calculations.

Text-book: E. A. Posselt's "Technology of Textile Design."

TECHNOLOGY OF FABRICS 2—Elementary Design—Semester 2. (Eaton)

Sophomore VIII: (2 and 0)

Prerequisite: Technology of Fabrics 1.

Production of designs representing derivative twills and satins, honeycombs, mock leno, granites, crepe, bedford cords, double cloth, pique, corduroy, velvet, and extra warp designs. Extra selvage motions, cam designing and top riggings.

Text-book: Posselt's "Technology of Textile Design."

TECHNOLOGY OF FABRICS 3—Dobby Designing—Semester 1. (Cheatham)

Junior VIII. (0 and 2)

Prerequisite: Technology of Fabrics 1, 2.

A study of pattern styles. Method of combining two or more weaves. Ratio of construction for different weaves in patterns. Laying out designs when either "ground" or "over-all" is given. Drawing in and chain drafts and reed plans. Point to start drawing warp. Reed, harness and warp calculations. Each student is required to produce ten designs from sketches and cloth specifications.

TECHNOLOGY OF FABRICS 5, 6—Fabric Analysis—Semesters 1 and 2 (Eaton)

Junior VIII: (0 and 2)

Prerequisite: Technology of Fabric 1, 3.

Methods of distinguishing between cotton, wool, silk and linen. Finding per cent of different fibers in fabrics. Determining amount of size in fabrics. Methods of finding yards per pound from small samples. Over-all and ground constructions. Per cent of warp and filling. Warp and filling numbers. Finding weave and looming plans. Each student is required to analyze six samples the first semester and ten the second semester.

TECHNOLOGY OF FABRICS 7—Leno Designing and Warp Preparation—Semester 1 (Eaton)

Senior VIII: (2 and 0)

A study of warping and slashing for gray goods. Size mixtures. Humidity requirements. Color in fabric production. Methods of dressing colored warps. Loom beam dressing and warping layouts for colored warps. A study of cross weaving on cord and steel doups.

TECHNOLOGY OF FABRICS 8—Jacquard Designing—Semester 2. (Cheatham)

Senior VIII: (0 and 4)

A study of the different types of Jacquard machines. Types and methods of harness building. Laying out designs for different tie ups. Card cutting and lacing. Method of repeating and machine lacing. Each student will be required to make one design for a specified tie-up and to prepare cards therefrom.

Text-book: I. C. S. on Jacquards.

TECHNOLOGY OF FABRICS 10—Weave Room Methods—Semester 2 (Eaton)

Senior VIII: (3 and 0)

Organization and laying out of weave room machinery. System of keeping records on typical styles of fabrics. Cost finding for different types of fabrics. General weave room management.

General Management of weaving mills, including organization and laying out of weaving room and preparatory machinery, Cost finding.

TECHNOLOGY OF FABRICS 11.—Plain Weaving—Semester 1. (Eaton)

Sophomore VIII: (0 and 2)

Instruction in the operation of automatic and non-automatic looms. Drawing in warps. Warping, winding and slashing.

TECHNOLOGY OF FABRICS 12—Loom Fixing—Semester 2. (Cheatham)

Sophomore VIII: (0 and 2)

A systematic study of the motions of a loom. Setting and timing the parts with particular reference to economy in power and supplies. Multiple cam setting and production calculations.

Text-book: Reynolds' "Loom Fixing"

TECHNOLOGY OF FABRICS 13, 14—Fancy Weaving—Semesters 1 and 2. (Cheatham)

Junior VIII: (0 and 2)

Prerequisites: Technology of Fabrics 11, 12.

This course is a combination of practical weaving and loom fixing on dobbies and box looms. A study of dobby harness setting for various types of patterns. A detailed study of dobbies and box motions, and practice in building dobby and box pattern chains.

TECHNOLOGY OF FABRICS 16—Pattern Weaving—Semester 2 (Eaton)

Senior VIII: (0 and 4)

Practice in putting on dobby, box, and jacquard patterns which have been worked out by the students in courses 3, 7, and 8

TECHNOLOGY OF FABRICS 18.—Knitting—Semester 2. (Eaton)

Senior VIII: (0 and 2)

A study of flat and circular machines. Spring and latch needles. Gauge and needles per inch. Functions of all parts of machines. Narrowing and widening. Splicing and reinforcing. Yarns for different gauges. Yarn changes, building pattern chain for hose and half hose. Transferring and looping. Rib knitting. Changing the stitch. Finishing the hosiery.

Division Rooms and Equipment

The equipment for this division occupies three rooms on the top floor of the Textile Building besides one office and class room.

Knitting Room.—One "K" model Scott and Williams 220 needle hosiery machine; one Hemphill 200 needle "Banner" hosiery machine; one Brinton 176 needle ribber; one Jenckes 176 needle hosiery machine; one Wright Steady Dial looper; one 16-bobbin circular braider; one 13-bobbin flat braider; two Merrow overseaming machines; one 220 needle Banner knitting machine; 14 Gerhardt Hand Knitters.

Warping and Winding Room.—One Davis and Furber dressing machine; one Entwistle beamer; one Draper ball warper; one Draper beam warper; one Lowell Machine Shop single cylinder slasher; one jack spooler; one Altemus quiller; one Payne skein winder; one Steele 2-drum quiller, one 4-spindle Universal "Leeson" No. 90 quiller; 1 12-Spindle No. 90 Universal Winder, motor drive.

Weave Room.—Seventeen 14-inch hand looms with 25 harness dobbies; one 40-inch Northop loom, 16-harness dobby; one 28-inch Northop loom, steel harness; three 40-inch Mason looms; one Crompton and Knowles 30-inch loom, 20 harness dobby and leno motion; one Crompton and Knowles 30-inch loom, 624-hook Holton Jacquard; one Crompton and Knowles 40-inch "Gem" loom, 4 by 4 box and 25 harness dobby; one Crompton and Knowles 26-inch terry towel loom, 3 by 1 box and 16-harness dobby; one Crompton and Knowles 64-inch damask loom, 4 by 1 box and 624-hook Jacquard; one Whitin 40-inch multiple cam loom; one Whitin 40-inch loom, 20 harness dobby; one 27-inch Whitin medium duck loom; two Kilburn and Lincoln 36-inch plain looms; one Crompton and Knowles 30-inch loom, 2 by 2 box and 16 harness dobby; one Crompton and Knowles 30-inch loom, 416-hook Jacquard and card multiplier; one "E" model 28-inch Draper loom, steel harness warp stop motion; one "E" model 28-inch Draper loom, two harness "string" warp stop motion; one "E" model 28-inch Draper loom, multiple cams and extra selvage motion; one "K" model 28-inch Draper loom; double filling fork, feeler and leno motion; one 40-inch "Ideal" Stafford loom, feeler and 624-hook C. & K. Jacquard; one 30-inch "Ideal" Stafford bag loom; one 40-inch "Ideal" Stafford loom, two harness; one "Ideal" Stafford 4-harness loom; one four space, four bank, Crompton and Knowles narrow fabric loom, 416-hook Jacquard; one Crompton and Knowles 40-inch loom with 624-hook Jacquard; one Crompton and Knowles 30-inch 4 by 1 box loom with 20-harness dobby and leno motion; one Crompton and Knowles 30-inch 2 by 1 automatic box loom; one "E" model 40-inch Draper loom; multiple harness; one Hopedale Mfg. Co's 40-inch "Nordray" plain loom; one Hopedale Mfg. Co. 40-inch Nordray 5-harness satin loom; 1 C. & K. automatic Dobby Dress Goods, 46½", 25 harness, 4 x 1 Box, motor drive; 1 C. & K. Dobby Silk, 60 in., 25 harness, 4 x 4 Box, motor drive; one Royle French index, piano, card cutting machine; four drawing in frames and a complementary supply of reeds, combs, harness and pick gears.

TEXTILE CHEMISTRY AND DYEING

Professor Doggett

TEXTILE CHEMISTRY 1—Organic Chemistry—Semester 1.
Junior VIII: (2 and 2)
Prerequisite: Chemistry 1, 2.

After a general introduction a detailed study of the aliphatic series follows, including constitution and structural theory. Some attention will be given to the history of organic chemistry..

The laboratory work consists in the preparation of one or more organic compounds illustrating each group. Some time is also given to qualitative organic analysis. Special attention is given to the proper setting up and manipulation of apparatus.

Text-book: Cohen's "Theoretical Organic Chemistry." Holleman's "Laboratory Manual of Organic Chemistry for Beginners.

TEXTILE CHEMISTRY 2—Organic Chemistry—Semester 2.

Junior VIII: (2 and 2)

Prerequisite: Textile Chemistry 1.

The aromatic series of organic compounds is studied, special prominence being given to the structure and preparation of synthetic dyestuffs and of the intermediate compounds from which they are made.

In the laboratory typical aromatic compounds illustrative of each group as well as a number of intermediates and dyestuffs are prepared.

Text-book: Cohen's "Theoretical Organic Chemistry."

Reference book: Cain and Thorpe's "Synthetic Dyestuffs."

TEXTILE CHEMISTRY 3—Organic Chemistry—Semester 1.

Senior VIII: (2 and 2)

Prerequisits: Chemistry 1, 2; Textile Chemistry 1, 2.

The manufacture, uses, and technical analysis of the more important chemicals and other compounds used in the textile industry are studied.

The laboratory work in connection therewith consists in the preparation and analysis of the chemicals and other products most commonly used.

Reference Books: Knecht, Rawson and Rosenthal'h "Manual of Dyeing"; Lunge's "Technical Chemists' Handbook"; Throp Dictionary of Applied Chemistry."

TEXTILE CHEMISTRY 4—Dyeing—Semester 2.

Senior VIII: (0 and 4)

Prerequisite: Textile Chemistry 3.

This course includes the bleaching, dyeing, mercerizing, and printing of cotton. Some attention is also given to the dyeing of wool and of silk. The more important mordants are prepared and applied, and experiments illustrating the properties and uses of gums, starches and chemicals used in the textile industry are made. Then follows color matching and the identification of dyes on the fiber. A brief discussion of the physical and chemical principles involved precedes the laboratory work of each period.

Text-book: Fraps' "Principles of Dyeing."

Reference Books: Knecht, Rawson and Rosenthal's "Manual of Dyeing"; Knecht and Fothergill's "Principles and Practice of Textile Printing"; and C. M. Whittaker's "The Testing of Dyestuffs in the Laboratory."

Division Rooms and Equipment.

The work in textile chemistry and dyeing is carried on in an experimental laboratory and dyehouse.

The experimental laboratory has accommodation and apparatus for thirty students. The desks are supplied with gas, water, drawers, and lockers. The dyehouse equipment comprises one Schaum and Uhlinger self-balancing hydro-extractor; one model vacuum dysing machine with steam engine attached; one Birst sample dyeing machine with electric motor attached; one calico printing machine; one Butterworth jigger; one Psarski dyeing machine; one Franklin dyeing machine; one Hussong dyeing machine; one mercerising machine for years; one steaming and ageing box; jacketed copper kettles.

VETERINARY SCIENCE

Professor Feeley.

VETERINARY SCIENCE 2—Anatomy and Physiology—Semester 2. (Feeley)

Junior 1, Elective: (2 and 2)

This course is a study of anatomy, physiology of digestion, farm sanitation, common diseases, and first aid treatment and is especially arranged for agricultural students.

The course in anatomy, which is arranged as an introduction to the study of physiology of digestion and stock judging; includes the study of skeletons and the principal articulations, muscles of locomotion and the organs of circulatory, respiratory, digestion, and urinary apparatus. Skeltons, models, and charts are used in this course. The physiology of digestion treats of the chemical and physical processes by which food is made soluble and capable of absorption. Farm sanitation deals with sanitary conditions and with the fundamentals in the control of contagious and infectious diseases. The common diseases and first aid treatment of farm animals are also studied.

Text-book: Hadley's Veterinary Science.

VETERINARY SCIENCE 3—Diseases of Animals—Semester 1. (Feeley)

Senior I, Elective : (2 and 2)

This course covers the principles of etiology, pathology, diagnosis, and treatment of the various diseases of domestic animals.

VETERINARY SCIENCE 101—Semester 1. (Feeley)

Two-year Agr. XII: (2 and 2)

A brief study of anatomy, physiology, digestion, farm sanitation, common diseases, and first aid treatment of farm animals.

Text-book: "Veterinary Studies for Agricultural Students"—Reynolds.

YARN MANUFACTURING

Associate Professor Horton

Assistant Professor Campbell

YARN MANUFACTURING 1—Pickers—Semester 1. (Campbell)
Sophomore, VIII: (2 and 2)

Opening and mixing cotton. Study of bale breakers, automatic feeders, intermediate and finisher lappers. Various styles of openers, setting and adjusting same. Cleaning trunks, different kinds of beaters, screens, fans, calendar rolls, evener motion and measuring motion. Calculation for drafts, production, speeds, etc. Practice operating pickers and cleaning machinery.

Text-book: Winchester's Cotton Yarn Manufacture.

YARN MANUFACTURE 2—Cards and Drawing Frames—Semester 2 (Campbell)
Sophomore VIII: (2 and 2)

A study of the revolving flat card, principal parts, stripping, clothing, grinding, brushing, and settings. Calculations for speeds, production, waste, draft, and constants for same. Setting of metallic and leather covered rolls on the drawing frame. Care and varnishing leather covered rolls, calculation for speeds and drafts.

Practice operating cards, drawing frames, and other machinery.

Text-book: Winchester's "Cotton Yarn Manufacture."

YARN MANUFACTURE 3—Roving Frames—Semester 1. (Horton)
Junior VIII (2 and 2)

The construction and operation of roving frames, study of the slubber, intermediate, roving frame, and jack frame. The different styles of top rolls used and the method of weighting them. Making necessary calculations for draft, twist, tension, lay, taper and constants for same. Production per spindle and sizing the roving, turns per inch for different hanks.

Practice operating roving frames.

Text-book: Winchester's "Cotton Yarn Manufacture."

YARN MANUFACTURE 4—Cotton Grading. Doubling and Drafting—Semester 2 (Horton)
Junior VIII: (2 and 2)

Classing of cotton according to U. S. Government standards for grades, tinges, and stains. Stapling of cotton, study of Sea Island, Egyptian, and all grades of cotton raised in the United States. Methods of ginning, marketing, contracts for cotton, receiving and handling cotton at mills, and claims.

Text-book: Notes.

Calculation for draft, production, weights, and number of machines required for different counts, labor costs, and production of yarn from picker to spinning frame inclusive.

Practice operating spinning frames.

Text-book: Lectures and reference books.

YARN MANUFACTURE 5—Spinning, Spooling and Twisting—
Semester 1 (Horton)
Senior VIII (2 and 2)

Construction and principal parts of spinning and spooling machines, such as builder motions, travelers, rolls and creels. Calculations on twisting, drafting, doubling, and constants. Wet and dry twisting, amount of twist in different ply and coarse yarns, balanced twist, and thread. Size of rings, steel and brass travelers for different counts. Calculation for the same.

Practice operating spinning and spooling machines.

Text-book: Winchester's "Cotton Yarn Manufacture."

YARN MANUFACTURE 6—Combers, Sliver Lap, and Ribbon Lap—
Semester 2. (Horton)
Senior VIII: (1 and 2)

Construction, setting, and adjustment of sliver lap and ribbon lap machines. Calculations for draft and production of the same. Study of somber, timing, setting for different staples of cotton and production of waste. Operation and management of combers, and all necessary calculations.

Practice in operating the sliver lap, ribbon lap, and comber machines; also in running test lots of cotton through the different machines.

Text-book: Winchester's "Cotton Yarn Manufacture."

YARN MANUFACTURE 8—Mill Economics—Semester 2. (Horton)
Senior VIII: (1 and 0)

The character of this course is descriptive rather than theoretical. Its aim is to explain the principles of economics as applied to general management. This includes the study of cost of production in the various departments, wages and labor conditions, care of mill and mill village. Students will report in class on articles assigned them in technical books and periodicals.

Division Rooms and Equipment.

Picker Rooms.—Pickers—One Atherton automatic feeder; one Atherton breaker lapper; one Atherton finisher lapper. Pickers are equipped with Brown-St. Onge patent adjustable grid bars.

Card Room.—Cards—One Mason 40 inch revolving top flat card 1, Woonsocket Machine Co., Revolving Top flat card.

Double Carding Process.—One Saco and Pettee 40 inch breaker card; one Saco and Pettee 20 inch improved lap winder; one Saco and Pettee 40 inch finisher card.

Combing.—One Whitin sliver lapper; one Whitin four head, ribbon lapper, one eight head,, Whitin high speed comber.

Railway Heads.—One Saco and Pettee railway head, with evener motion, stop motion and metallic rolls; one Mason railway head, with evener motion, stop motion and metallic rolls.

Drawing Frames.—Two Saco and Pettee drawing frames four deliveries, stop motions, metallic rolls; one Mason draw frame, four deliveries, stop motions and metallic rolls; one Whitin drawing frame four deliveries, leather covering rolls, one, Woonsocket drawing frame, four deliveries, Metallic rolls.

Fly Frames.—One Saco and Pettee 12 x 6 inch, 40 spindle slubber, with latest differential motion; one Saco and Pettee 6 x 3 inch 80 spindle, fine roving frame, with latest differential motion, one new four roller Slubber 60 spindles Saco Lowell, one new four-roller intermediate 72 spindles Saco Lowell, one new Woonsocket fine frame 80 spindles, one Woonsocket 6 x 2½ inch, 96 spindle jack roving frame, with Daly's improved differential motion.

Ring Spinning.—One Saco and Pettee combination warp and filling ring spinning frame, 128 spindles; one Mason combination warp and filling ring spinning frame, 112 spindles; two Fales and Jenks combination warp and filling ring spinning frames, 80 spindles each designed for spinning fine counts. two Whitin combination warp and filling ring spinning frames, 80 spindles each. One new Fales and Jenks tape drive Westinghouse motor driven 80 spindle spinning frame for both warps filling.

Spooling.—Two Draper spoolers 40 spindles each; one Saco and Pettee spooler, 72 spindles; one Barber-Coleman automatic knotter, one Byrd automatic knotter; One motor driven Westinghouse 24 spindle Eastern and Burnham spooler; one Barber-Coleman knotter "Simplex."

Twisting.—One Draper combination wet and dry twister, 48 spindles; two Fales and Jenks wet twisters, combination filling and taper top wind; 70 spindles each.

Winding.—One universal winder and doubler; one Foster Cone and tube winder.

Reeling.—One Draper 54 inch reel, 50 spindles.

1 set of Washburn wooden spinning rollers, 1 set self weights iron rollers, 1 Alfred Suter direct yarn counters. 1 Alfred Suter twist Counter.

Miscellaneous Equipment.—Fairbanks scales; model of Daly's differential motion (complete;) models of Campbell's ball bearing rolls; Brown and Sharpe roving reel; Brown and Sharpe yarn reel; Brown and Sharpe scales and weights; Charlotte Supply Co's. skein tester; model of "Eagle" cotton gin; Fred B. Howe twist counter. Henry L. Scott Yarn and Cloth Tester. Reeves Variable Speed transmission. Bahnson Humidifiers. Bahnson Conditioning machine.

ZOOLOGY AND ENTOMOLOGY

Professor Lathrop

Associate Professor Eddy

Assistant Professor Reed

ZOOLOGY 2—General Zoology—Semester 2. (Reed)
Sophomore I, IX, XII: (2 and 4)

A study of the fundamental principles of structure and life processes of animals followed by a survey of the animal kingdom with particular reference to the economic groups. Given by text-book references, laboratory and field practice, and supplementary lectures.

This course is designed to give the necessary general knowledge of zoology and lay a foundation for the special work in agriculture that follows.

Text-book: "Outlines of General Zoology"—Newman.

Laboratory Manual: "Laboratory Manual ofr Zoology"—Hyman.

ENTOMOLOGY 3—General Entomology—Semester 1 (Reed)
Junior 1, Elective: (2 and 2)
Prerequisite: Zoology 2.

An introduction to entomology. This course embraces the elementary principles of entomology including theoretical and laboratory work on the structure and relationship of insects.

Text-book: "Introduction to Entomology"—Comstock.

ENTOMOLOGY 5, 6— Economic Entomology, Semester 1 (Eddy and Reed)
Senior 1, Elective (2 and 2)
Prerequisite: Entomology 3.

A study of insect pests attacking field crops and stored products. Opportunity is offered for observations of economic pests in the field; familiarizing the students with the work and habits of the important insect pests. Approved methods of control, including cultural practices, poison applications, and fumigation methods, are thoroughly treated.

The work of the second semester is a study of insect pests of truck and garden crops and greenhouse plants. The theoretical studies are supplemented by practical work in the application of control methods.

Text-book: "Insect Pests of Farm, Garden and Orchard"—Sanderson and Peairs.

ENTOMOLOGY 8—Orchard Insects—Semester 2 (Lathrop)
Senior I, Elective (2 and 2)
Prerequisite. Entomology 3.

In this course special attention is given to the insects that attack orchords, small brush fruits and nut trees. The text-book work is supplemented by practice in the laboratory and the study of control measures in the field.

Text-book: "A manual of Fruit Insects."—Singerland and Crosby

ENTOMOLOGY 9—Insect Morphology and Taxonomy—Semester 1 (Reed)
Senior 1, Elective: (2 and 2)

A study of external and internal morphology of insects, including a brief consideration of histological technique. The basic principles of insect classification will be amphasized. Intended for students majorng in entomology.

Text-book: "Introduction to Entomology"—Comstock.

ENTOMOLOGY 10—Apiculture—Semester 2 (Eddy and Reed).
Senior I, (Elective. (2 and 2)

An introductory course intended to familiarize the students with the fundamentals of modern beekeeping. The college apiary offers excellent opportunity for practical work.

Text-book: "Beekeeping"—Phillips.

ZOOLOGY 11—Animal Parasitology—Semester 1 (Reed)
Senior I, Elective (2 and 2)
Prerequisite: Entomology 3.

A brief review of animal parasites and their relation to the health of a man and animals. Lectures, laboratory, and field practice in biology and practical problems in sanitation.

Text-book: "Animal Parasites and Human Disease"—Chandler.

Division Rooms and Equipment

General Laboratory and Lecture Room. This room is located on the second floor of the Agricultural Hall, and is equipped with standard laboratory tables and lockers for general course work. Desks are supplied for advanced students specializing in Zoology and Entomology. Large windows provide excellent light for laboratory work. Necessary microscopes and other equipment for study of laboratory specimens are available.

Divisional Office. The main office of the division is located on the first floor of Agricultural Hall. Here are located the files and records of the division, as well as the library ,and the research and economic collections.

Insecticide Laboratory. A well equipped laboratory for the preparation and study of insecticides is located on the ground floor of the Agricultural Hall. This laboratory is equipped for instruction in the preparation of standard insecticides, and for research work on insecticide problems.

Research Laboratory. This is located on the basement floor of the Agricultural Hall. Complete equipment is provided for microscopical technique, and for general research on zoological and entomological problems. Excellent photographic equipment is available.

Agriculture Laboratory. A small building about one-fourth mile northeast of Agricultural Hall has been provided for our work in beekeeping. Equipment is available for instruction in the fundamentals of modern beekeeping, and a small apiary provides opportunity for practice in apiary methods.

Ridge Spring
S. C.

PART VI.—HISTORY, BUILDINGS, ETC.

Historical Sketch of Clemson College

Thomas G. Clemson, after whom the College is named, was born in Philadelphia in July, 1807. and died at the Fort Hill home April 6, 1888.

In 1823, then scarcely 16 years old, he ran away from home, and, after spending some time in England, went to Paris, where he took up arms in the revolution of that time. His gallantry brought him recognition and the friendship of prominent men, resulting in his being given a course in the celebrated School of Mines in Paris. In this school he remained four years, graduating with high honors.

While he was in Europe, his father died, leaving nothing to him in his will. Soon after this he returned to America, and establishing himself in Washington, practiced his profession of Mining Engineer, and accumulated a comfortable fortune. It was here that he met Miss Anna Marie, the eldest daughter of John C. Calhoun, and married her. Two children resulted from this union—a daughter, Floride, who afterwards became Mrs. Gideon Lee, of New York, and a son, John Calhoun Clemson.

Mr. Clemson was a strong advocate of the political doctrine of Mr. Calhoun, and when the war broke out, fearing arrest, he and his son escaped by night in a boat, and walking to Richmond, offered their services to President Davis. Mr. Clemson was assigned to the Trans-Mississippi Nitre Mining Department, where he served until the end of the war. His son was appointed a Lieutenant and assigned to active duty.

At the end of the war, Mr. Clemson with his family came to Pendleton and resided with Mrs. John C. Calhoun until her death in 1866.

Mr. Clemson was interested as far back as this date in the establishment of an Agricultural and Industrial College. In November 1866, a Committee was appointed, consisting of Hon. Thomas G. Clemson, Hon. R. F. Simpson and Col. W. A. Hayne, to appeal to their fellow men for

> "Aid to found an institution for educating our people in the Sciences, to the end that our Agriculture may be improved, our worn and impoverished soils be recuperated, the great natural resources of the South be developed."

In January 1867, at a meeting of the Pendleton Farmers' Society, Mr. Clemson addressed the body in "an able and most interesting and instructional discourse," and submitted in the form of a circular the appeal above referred to. The circular was written by Mr. W. H. Trescot, and closes with the words:

> "Letters and contributions to be directed to the Hon. Thos. G. Clemson, LL.D., Chairman of the Committee, Pendleton, Anderson District, South Carolina."

Again in the minutes of the same Society, of which he was elected President in 1868, under date of Oct. 14, 1869, we find the following:

> "The President, (Mr. Clemson), entertained the Society for half an hour on the subject of Scientific Agriculture, and the Importance of Scientific Agricultural Education."

These citations indicate an early interest on the part of Mr. Clemson in the great cause to which he later devoted his estate.

Previous to the war Mrs. John C. Calhoun had sold the Fort Hill place and negroes to her son, Col. Andrew P. Calhoun, taking in payment his bond and mortgage for $40,200.00. At her death, she left a will, deeding to her daughter, Mrs. Clemson, three-fourths of the value of this bond and mortgage, and to her granddaughter, who at the time of Mrs. Calhoun's death was Mrs. Gideon Lee of New York, the remaining one-fourth of the bond and mortgage.

Shortly after Mrs. Calhoun's death, Mrs. Thomas G. Clemson, after considerable costly litigation foreclosed the mortgage on the Fort Hill place, and at the sale of the property in Walhalla in January 1872, Mr. Clemson, as Trustee for his wife and daughter, bid it in for $15,000,* and he himself paid out of his private funds about $8,000 to cover lawyer's fees, court cost, etc.

In 1871, Mr. Clemson's daughter, then Mrs. Gideon Lee, died, and seventeen days later, his only son, John Calhoun Clemson, was killed in a railroad accident at Seneca. Left childless, Mrs. Clemson willed to her husband, Thomas G. Clemson, all of her estate, "absolutely and in fee simple."†

Mr. Clemson, in his will, left to his granddaughter, Floride Isabella Lee, $15,000 to free the property, which by the same will was donated to the State, from any claim in equity that the granddaughter might have. This was, of course, in addition to one-fourth of the estate which descended to Miss Lee from her mother.

Neither by intention, nor by donation, nor by any form of hereditary transmission does it anywhere appear that John C.

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* See Title Book, Oconee County, P. 177-f.

† See Judge of Probate's Office, Oconee County, Apartment 26, Package 287.

Calhoun had anything to do with the founding of the College which bears Clemson's name.

In 1875 Mrs. Clemson died, and on April 6, 1888, Mr. Clemson followed her to the grave, and was buried in the Episcopal church yard at Pendleton.

Mr. Clemson's will was bitterly contested by the Lee family, but was finally fully sustained by the U. S. Supreme Court. After the settlement of the will, the Trustees of the College bought from Miss Floride Isabella Lee her one-fourth of the estate which adjoined the tract given to the State by Mr. Clemson.

The following extracts are made from Mr. Clemson's will ‡ in order to show clearly his purpose in offering his property to the State for the founding of the Clemson Agricultural College.

* * * * "Feeling a great sympathy for the farmers of this State, and the difficulties with which they have to contend in their efforts to establish the business of agriculture upon a proper basis, and believing that there can be no permanent improvement in agriculture without a knowledge of those sciences which pertain particularly thereto, I have determined to devote the bulk of my property to the establishment of an Agricultural College upon the Fort Hill Place. My purpose is to establish an Agricultural College which will afford useful information to the farmers and mechanics; therefore it should afford thorough instruction in agriculture and the natural sciences connected therewith; it should combine, if practicable, physical with intellectual education, and should be a high seminary of learning in which the graduate of the common schools can commence, pursue and finish a course of studies terminating in thorough theoretic and practical instruction in those sciences and arts which bear directly upon agriculture. But I desire to state plainly, that I wish the Trustees of said institution to have full authority and power to regulate all matters pertaining to said institution, * * * * but to always bear in mind that the benefits herein sought to be bestowed are intended to benefit agriculture and mechanical industries. * * * * I trust I do not exagerate the importance of such an institution for developing the material resourses of the State, by affording its youth the advantages of scientific culture, and that I do not over-rate the intelligence of the Legislature of South Carolina, ever distinguished for liberality, in assuming that such appropriations will be made as will be necessary to supplement the fund resulting from the bequest herein made."

"I therefore give * * * * the aforesaid Fort Hill place where I now reside, formerly the house of my father-in-law, John C. Calhoun, consisting of eight hundred and fourteen acres, more or less, in trust that whenever the State of South Carolina may accept said property as a donation from me, for the purpose of thereupon founding an Agricultural College, in accordance with the views I have hereinbefore expressed, (of which the chief justice of South Carolina shall be the Judge,) then my executor shall execute a deed of the said property to said State and turn over the same all property hereinafter given as an endowment of said institution.

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‡ See Judge of Probate's Office, Oconee County, Apartment 64. Package 671.

to be held as such by the said State so long as it in good faith devotes said property to the purpose of the donation." * * * *

"The following named gentlemen, seven in number, shall be seven of the Board of Trustees, to-wit: R. W. Simpson, D. K. Norris, M. L. Donaldson, R. E. Bowen, B. R. Tillman, J. E. Wannamaker, and J. E. Bradley; and the State, if it accepts the donation, shall never increase the Board of Trustees to a number greater than thirteen in all, nor shall the duties of the said Board be taken away or conferred upon any other men or body of men. The seven Trustees appointed by me, shall always have the right, and the power is hereby given them and their successors, which right the Legislature shall never take away or abridge, to fill all vacancies which may occur in their number by death, resignation, refusal to act, or otherwise. But the Legislature may provide as it sees proper for the appointment or election of the other six Trustees, if it accepts the donation. * * * The name of this Institution is to be "The Clemson Agricultural College of South Carolina."

In the codicil to his will, Item 12, occurs the following significant statement:

"The desire to establish such a school or college as I have provided for in my said last will and testament, has existed with me for many years past, and many years ago I determined to devote the bulk of my property to the establishment of an Agricultural School or College. To accomplish this purpose is now the one great desire of my life."

In November 1889, the General Assembly of South Carolina passed the necessary acts authorizing the acceptance of the terms of Mr. Clemson's will, and the establishment of the College. The following extracts are taken from the State laws relating to the College:

Section 1300: "The Honorable Thomas G. Clemson having departed this life on the sixth day of April, A. D. 1888, leaving of force his last will and testament * * * * wherein he devised and bequeathed the Fort Hill plantation, as well as all his other property, both real and personal, except certain legacies in the said will mentioned and provided for, all in trust to convey to the State of South Carolina when the said State shall accept the same for the purpose of establishing and maintaining an Agricultural and Mechanical College upon the aforesaid Fort Hill plantation upon the terms and conditions of said will, **the State of South Carolina hereby expressly declares that it accepts the devise and bequest of Thomas G. Clemson, subject to the terms and conditions set forth in his last will and testament."** * * * *

Section 1302: "The said College shall be under the management and control of a Board of Thirteen Trustees composed of the seven members nominated by said will and their seccessors and six members to be elected by the Legislature in Joint Assembly."

Section 1304: "That it shall require a two-thirds vote of said Board of Trustees to authorize the expenditure of any moneys appropriated to said College by the State, or to authorize the sale or transfer or re-investment of any property or moneys arising from the sale of any property under the provisions of this Act."

"Section 1319: All the privilege tax on fertilizers heretofore required to be paid to the Commissioner of Agriculture shall in the future be paid to the Treasurer of the State, subject to the order of the Board of Trustees of the Clemson Agricultural College of South Carolina; and so much of the money so received as shall be necessary to defray the expenses of the Board in performing the duties now by this Act devolved upon them shall be thus used, and the balance shall go to the said College, for its erection and maintenance."

It will be seen from the above extracts that the State accepted in good faith the terms of Mr. Clemson's will, features of which were the maintenance of the College, the recognition of the self-perpetuating life membership appointed by Mr. Clemson, and the naming of the College after Mr. Clemson.

In his will Mr. Clemson provides that there should be seven life trustees and that six might be selected by the State. It would seem appropriate to mention that in the appointment of the seven life trustees, Mr. Clemson had two purposes in mind. The State had only recently emerged from negro domination and during a part of that time the doors of the University and of the Citadel had been closed because of the action of a radical legislature admitting negroes as well as whites. Mr. Clemson wished to insure white supremacy in the government of Clemson. Also, at the time he wrote his will, industrial education had no standing with southern educators and the danger of having the college diverted from its purpose into a classical institution loomed large in Mr. Clemson's mind.

At the time of the Act of Acceptance, however, these dangers were overpassed and the Legislature passed the rule that a two-thirds vote of the entire Board of Trustees would be necessary to expend any moneys appropriated to the said college by the State.

This is a historical sketch, not an argument. Whether it were wise to create a separate agricultural and mechanical college located in one corner of the state is now very largely an academic question—likewise it may be a question with some whether the State should have accepted the bequest under the terms of Mr. Clemson's will. In the face of an accomplished fact, logic and lamentation are alike impotent. South Carolinians are more interested in knowing not what might have been done, but what has actually been accomplished. Clemson College itself is the answer to that question.

HISTORY OF THE COLLEGE

The College was opened in July 1893, with an enrollment of 446 students. The session extended from the third Thursday in February to the third Thursday in December, with the idea of giving all students in Agriculture an opportunity to be instructed in the practical phases of that subject during the crop-growing season.

On the night of May 22, 1894, the main College building was burned, but the regular work continued, and the building was promptly re-built.

The first graduating exercises were held in December 1896, the graduating class numbering thirty-seven,—fifteen in the Agricultural Courses, and twenty-one in the Engineering Courses. In the fall of 1897, the session was changed to begin in September and close in June, as it had been found inadvisable to operate the College through the hot summer months. The exercises of the second commencement which would normally have occurred in December 1897, were held February 6 to 9, 1898. The undergraduate classes were continued until June. Owing to the change from winter to summer vacation, there was no class graduated in 1897.

By an act of the State Legislature in the session of 1904, and amended in the session of 1907, 165 beneficiary scholarships were established, of the value of $100 per annum each, and free tuition apportioned among the counties as are the members of the Senate and House of Representatives. The number has since been increased to 170, by the creation of five new counties.

ENROLLMENT				GRADUATES BY COURSES.										
Years	Regular Sessions	Summer School	Total Enrollment	Agriculture	Mech. Elec. Engr.,**	Electrical Engr.	Mechanical Engr.	Civil Engr.	Architecture	General Science	Chemistry *	Textile Engr.	Textile Industrial Educ.	Total Graduates
1924-1925	1155	484	1639	50	....	29	9	18	6	1	1	10	23	147
Totals .	22383	2688	25071	1059	514	117	76	252	38	3	60	221	23	2368

(*) Includes Chemical Engineering.

(*) Includes 13 graduates in Chemistry and Geology.

(**) Courses separated after 1920.

COLLEGE BUILDINGS AND GROUNDS

Location.—The College is located on the Fort Hill homestead of John C. Calhoun, on the dividing line between Oconee and Pickens counties, in the picturesque foothills of the Blue Ridge. It has an elevation of 800 feet above sea level, and commands an excellent view of the mountains to the north and west, some of which attain an altitude of nearly five thousand feet. The climate is invigorating and healthful, and the surroundings are in every way favorable to the highest physical and mental development.

The College is one mile from Calhoun, a station on the main line of the Southern Railway, and two miles from Cherrys, on the Blue Ridge Railroad. By means of these roads and their connections, the College is easily accessible from all parts of the State. It is connected by telegraph and long-distance telephone with all parts of the country. The post office is conveniently situated on the campus, and receives eight daily mails.

Grounds.—The College grounds comprise about 1544 acres, including the campus, the farm, and the Experiment Station grounds. The campus, including about 200 acres, is laid out in walks, drives, and lawns, and is shaded by a beautiful grove of native forest trees.

"Bowman Field," lying just in front of the Academic Textile, and Y. M. C. A. Buildings, provides for part of the military drill.

"Riggs Field," a ten-acre athletic field, the largest and best arranged of its kind in the South, is located to the west of the Y. M. C. A. Building, and provides for baseball, football, track, tennis and military drill.

ACADEMIC BUILDING

The Academic Building is a three-story brick structure, 100 by 132 feet, trimmed with gray sandstone. It contains 36 rooms, including recitation rooms, library and reading rooms, literary society halls, and the offices of the President, the Registrar, the Commandant, the Treasurer, the Director of Student Affairs, the Alumni Secretary, and the Director of Athletics. The public **Telegraph Office** is on the ground floor of this building. Adjoining this building is Memorial Hall, the College Chapel, which has a seating capacity of about eighteen hundred. It is used for religious service and as an assembly room. In the basement are the class rooms and laboratories of the physics division. The entire building is provided with steam heat and electric lights.

AGRICULTURAL HALL *

The Agricultural Hall is a building 146 by 94 feet, in colonial style, and constructed of red side-cut brick, with columns and trimmings in oolitic limestone. It is furnished with a complete system of electric lights, water and sewer connection, and steam heat; provides class rooms and laboratories for instruction in agriculture, soil physics, botany and bacteriology, zoology and entomology, geology and mineralogy, and offices and laboratories for the Experiment Station. It also contains the Experiment Station library, the museum and gymnasium hall.

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* Burned April 2, 1925.

ENGINEERING BUILDING

The engineering building is a substantial brick structure containing about 38,000 square feet of floor space. On the first floor are the civil engineering division, testing laboratories, machine shop, wood shop ,forge shop, and foundry. On the second floor are the offices, classrooms and the engineering drafting and designing rooms. The third floor is devoted to architecture.

ELECTRICAL ENGINEERING LABORATORIES

A one-story brick building designed for delicate instrument work, contains the instrument laboratory, the standardizing laboratory, room for storing instruments, supply room, and the division office.

Adjoining the above is another single story brick building which contains the lecture room 25 by 35 feet (equipped with raised seats); the dynamo laboratory 35 by 53 feet; and large dark room and supply room.

TEXTILE BUILDING

This building is a brick structure of modern cotton mill design, 168 by 75 feet. It is of the slow-burning type, built according to fire insurance regulations, after plans of an experienced mill engineer. The building, although designed for educational and experimental purposes, containing office, lecture rooms and laboratories, retains the more prominent features of a typical Southern cotton mill. This affords the student an opportunity of gaining many points of valuable information in connection with mill construction, along with the manipulation of cotton fibres and the study of cotton mill processes and operations.

The Printery, which is located in the south basement of the Textile building, is equipped as follows: One Miehle two-revolution printing press, 30 by 42-inch bed; three Chandler & Price job presses; one Chandler & Price cutter; one Morrison stitcher; two perforators; one letter folder; two Hammond cabinets; two imposing stones; one No. 5 model linotype machine and one No. 14, Single key-board, linotype machine with supply of matrices for same; and one Automatic Miller Feeder and a supply of type, furniture, etc. All the machines are driven by individual motors. The College reports, bulletins and miscellaneous stationery are printed here.

CHEMISTRY BUILDINGS

Two substantial brick buildings of about the same dimensions, each consisting of two stories and a basement, and connected on the first and second floors by glass-covered passageways, are devoted to chemical work. The north building serves partly for academic work and partly for the analytical work of the Fertilizer Analysis Division of the Public State Work of the college. The entire south building is devoted to academic work. Both buildings are well ventilated, heated by steam, and lighted by electricity.

FERTILIZER BUILDING

This is a three-story brick building, situated near the south chemistry building, and containing the offices of the Secretary of the Board of Fertilizer Control, fertilizer tag rooms, etc.

The Clemson College Post Office occupies the ground floor of this building.

VETERINARY HOSPITAL

The Veterinary Hospital is a two-story frame building 48 by 65 feet, with basement 18 by 30 feet. It is furnished with electric lights, hot and cold water, and is heated by means of stoves. The basement contains a store room. The class room, office, pharmacy, and a well-equipped clinic and operating room are on the first floor. A laboratory for class work, a private laboratory and a store room for supplies are on the second floor.

DAIRY BUILDING

The Dairy Building is constructed of red brick trimmed with lime-stone. In addition to class rooms and laboratories it contains the offices of the following divisions: Animal Husbandry, Dairy, Horticulture, and Education. It is equipped with modern machinery for the manufacture of butter, ice cream and other dairy products, and for teaching modern methods of dairying.

DAIRY BARN

The Dairy Barn will accommodate both the Experiment Station and College herds. It is large enough to house 120 cows and all the feed required for these animals. It has separate box stalls for bulls and young stock. The floors are of cement, and cork brick is used on the floors where the cattle lie. The lighting, ventilation, sanitation, stanchions, stalls, and the equipment for cleaning and feeding are of the most modern type to be found in the country. The milk is handled carefully in accordance with the best practice and experience of modern dairy methods. Nearby is a calf barn and a hog barn embodying the most recent improvements in such buildings. There are also four large cement silos conveniently located, where the stock feed is kept to supply these barns.

Y. M. C. A. BUILDING

This building is in the Italian Renaissance style of architecture, of texture brick with colored tile inserts, terra cotta trimmings, and red tile roof. The interior finish is of stained yellow pine. It contains four floors—basement, mezzanine, first floor, and dormitory floor, giving a total of thirty-six thousand square feet of floor space. It is lighted by the indirect system, and has steam heat and modern water facilities.

The basement contains a basket-ball room, kitchen, quick lunch room, private dining room general confectionery store and soda fountain, two bowling alleys, swimming-pool, shower and locker rooms, and general toilet.

The mezzanine floor is given over principally to committee rooms, retiring rooms, and balconies.

On the first floor are the general offices, reading, games, and lounging rooms, a ladies' club room. and an auditorium. The dormitory floor has thirteen living rooms, a literary society hall, a masonic lodge room, and motion picture machine facilities.

The building is handsomely furnished and equipped to make a large contribution to the religious, social, and physical life of the student body and the community.

RESIDENCES

Nine brick and fifty-nine frame residences, situated on the campus, furnish homes for most of the college teachers and officers.

BARRACKS

The cadet barracks comprise three large brick buildings. One is four stories high and contains 247 rooms for students. In the basement of this building is the dining hall 170 by 44 feet and the kitchen 50 by 37 feet. The second building is 199 by 42 feet, and contains 104 rooms. The third building is 45 by 190 feet and contains 111 rooms.

These buildings are heated by steam and lighted by electricity, and have an abundant supply of pure water. The rooms in the barracks are furnished with single-width iron cots and other necessary appointments. The dining hall is well supplied with table linen, silverware, and china, and the kitchen is furnished with modern culinary appliances.

The bathrooms and toilets are in general, located in brick buildings apart from the barracks and connected with them by covered gangways.

CALHOUN MANSION

The former residence of John C. Calhoun, is kept in honor of his memory, in accordance with the provisions of Mr. Clemson's will.

The Calhoun Relics.—Several pieces of furniture and other interesting relics, formerly the property of Mr. Calhoun, are carefully preserved in the Calhoun Mansion, where they may be seen by visitors to the College.

CLEMSON COLLEGE HOTEL

The Hotel, a frame building with one eight-room annex, situated on a hill overlooking the campus, is operated by the College. In addition to furnishing a home for many officers and teachers, it is open the entire year to a limited number of transients.

HOSPITAL

The Hospital, located about a quarter of a mile from the barracks, is a wooden building, especially designed for the purpose. It is lighted by electricity, and has a thorough sewerage system. It is in the immediate charge of the Surgeon, who is assisted by an experienced matron and nurse, thus insuring the best personal attention to each patient.

LAUNDRY

This is a brick-building especially constructed and fitted with the improved machinery of a modern steam laundry, and is operated exclusively for the students.

FARM BUILDINGS

The College farm is provided with commodious barns and other farm buildings of modern design, which are described more fully in connection with the equipment for instruction in agronomy.

HORTICULTURAL GROUNDS

The Ornamental Horticultural Grounds are situated south east of the campus. Their acreage is devoted to the growing of various trees, shrubs, and flowers, and affords a beautiful park area as well as a small ornamental nursery. The Experimental Horticultural Grounds are located east of the campus and comprise about twenty acres. This area is devoted to experiments with apples, peaches, grapes, pecans, and small fruits. Vegetable and truck crop experiments are conducted in a fertile bottom along the banks of the Seneca River, about one mile south west of the campus.

The Cannery, a building 25 by 35 feet, is situated in the Horticultural Grounds. It is equipped for canning fruits and vegetables of all kinds.

Greenhouses,—The old greenhouse, 21 by 140 feet, and containing one thousand large pot-plants of various kinds and six thousand small pot-plants, is situated in the Horticultural Grounds.

The new greenhouse, containing a central room 30 by 30 feet, and two wings, each 20 by 30 feet, occupies a prominent place in the center of the campus.

Both are used for experiment work and class instruction in horticulture, botany, etc.

PUBLIC UTILITIES

The General Water Supply is taken form Hunnicutt Creek about three-quarters of a mile above the pump station. The water flows by gravity to a settling basin 36 feet by 36 feet, from there through two gravity filters having a capacity of three hundred and fifty gallons per minute. The filtered water passes to a storage reservoir from which it is pumped into a stand pipe one hundred feet high having a capacity of 130,000 gallons. From this it is distributed from the main to the various college buildings and to all parts of the campus. This water is tested regularly to see that it is kept free from all contaminations.

The Drinking Water Supply is pumped from a bold spring in a continuous stream through the barracks. It is thus furnished fresh-pure and cold. This and all sources of water supply are kept under constant and strict surveillance and the waters are frequently analyzed as a precaution against contamination.

The Sewer System.—All of the larger buildings and most of the residences are connected with an adequate sewer system, which empties into the Seneca River more than half a mile from the campus.

LIGHT AND HEAT

All of the college buildings and residences on the campus are lighted by electricity furnished from the central power station. The principal college buildings are heated by steam.

Refrigerating Plant.—In connection with the commissary there is a refrigerating plant consisting of the following: One 6-ton Frick double-cylinder compressor supplied with gauges, etc.; one double-pipe condenser; one triple-pipe brine cooler; 25 cans of 50 pounds capacity each, and a brine reservoir for use in ice-making or refrigeration. The following rooms are cooled by the plant; One room 12 by 13 feet for general storage, one 6 by 8 feet for milk and butter, one 6 by 8 feet for fruit and vegetables, one 6 by 12 feet for meat, and two rooms 6 by 6 feet each, in charge of the Chef, and used for storage of supplies intransit to dining hall.

POWER STATION

The central power and heating plant contains two 150-hp. Stirling water-tube boilers, and two 100-hp. Lombard return tubular boilers, two Babcock and Wilcox 150-hp. water-tube boilers with the necessary pumps, feed water heaters, and other auxiliary apparatus.

The power equipment consists of one 114-kw. Fleming sidecrank engine with unaflow cylinder direct connected to a 70 kw, 2,300-volt, three phase alternator, with direct connected exciter, and one 122-hp. Fleming four-valve engine, direct connected to a three-wire 75-kw., direct-current generator, one 200 kw. turbo-generator two stage, 2,300 volt, 3-phase alternating current with direct connected exciter.

A 75-kw. rotary converter is used to convert from one kind of service to another.

The switchboard equipment consists of three standard blue Vermont marble panels, and five black enameled slate panels, all equipped with the latest and best electrical instruments and appliances. The alternators are connected to the rotary converter through three 25-kw. transformers. All the machinery is of the General Electric Company make.

The building is 40 by 108 feet, is a single story of brick and cement blocks, with metal roof.

The plant complete cost about $53,000.00, and is in every way modern and up-to-date. It furnishes steam heat for the barracks and other college buildings, and electric lights and power to every department of the college and residences of the community. The pumping station, situated about one-half mile distant, is electrically operated from this plant. This pumping plant has both steam and electric pumps and an aggregate capacity of 1,100 gallons per minute.

Library—The general library and reference library are located on the second floor of the Academic Building. The Experiment Station Library is located in the Agricultural Building. A reference library is also maintained by the Chemical Department.

There are now approximately 30,400 volumes and approximately 10,000 public documents and government publications. About 25,000 pamplets are available for reference. In connection with the libraries are suitable reading rooms. There are approximately 300 periodicals accessible to the students.

In the general library are thirty-seven oil paintings collected by Mr. Clemson chiefly in Holland, together with a number of portraits.

The Museum—On the second floor of the Agricultural Building is located the museum of natural history. Large cases contain geological, botanical, and zoological collections of the department. These exhibits are of especial interest as they embrace the minerals and rocks of South Carolina, birds and insects. There are also historical objects in the museum.

CLEMSON COLLEGE ALUMNI ASSOCIATION

The Alumni Association has established a permanent office on the main building on the campus. This office is in charge of a permanent secretary, who is employed by the Governing Board of the Association. The Clemson office is a clearing house for all matters concerning the alumni. In addition to keeping accurate records of addresses and information concerning alumni, the Association has established at the Clemson headquarters a bureau for repairing Clemson Class rings, and for securing duplicates of these rings.

The Association holds its regular annual meetings at the college on Monday of commencement week. At this meeting all officers, with the exception of the secretary, are elected. The secretary is elected by the Governing Board who is in turn responsible to the general Association for the conduct of its business. The purpose of the Alumni Association is to serve the college and the alumni in every possible way. All correspondence regarding its affairs is conducted through the Clemson office.

Officers of the Association.

A. H. WARD, '14, President.
E. R. McIVER, '05, First Vice-President.
G. C. FANT, '11,Second Vice-President.
W. K. MAGILL, '15, Third Vice-President.
E. G. PARKER, '24, Secretary-Treasurer.

Governing Board

E. N. SITTON, '11, Term expires 1929.
R. B. WATERS, '16, Term expires 1928.
H. C. WANNAMAKER, '16, Term expires 1927.
H. S. Johnson, '10, Term expires 1926.
A. H. WARD, '14, Ex-officio.
E. G. PARKER, '24, Ex-officio.

THE SUMMER SCHOOL

In the future the Clemson College Summer School will emphasize only such courses as relate directly to agriculture and to agricultural and industrial education. These courses will include both graduate and under-graduate work in education and are designed especially for teachers of agriculture, science and industrial arts, and heads of schools. College credit will be given for work successfully completed in the regular six weeks summer school. A few under-graduate courses in agronomy and horticulture will be offered in 1925. The following six weeks courses will be given:

EDUCATION

Profs. Crandall and Washington

Undergraduate Courses

Special Methods in Teaching Agriculture.

Special Methods in Teaching Nature Study and Elementary Agriculture.

Special Methods in Industrial Education.

Educational Psychology.

Principles of Teaching.

Tests and Measurements.

Graduate Courses

Advanced Educational Psychology.

The Learning Process.

Advanced Tests and Measurements.

Secondary Education.

High School Administration.

Public School Administration.

Seminar in Agricultural Education.

Seminar in Industrial Education.

Seminar in Educational Psychology.

HORTICULTURE AND AGRONOMY.

Profs. Newman and Collings.

Field Crops.

Fertilizers.

Elementary Horticulture.

Gardening.

Landscape Gardening.

Profitable Animal Husbandry—To be given jointly by the divisions of Animal Husbandry and Dairying.

In addition to the six weeks' course offered for college credit, a three weeks' course in cotton grading will be given. This course will be in charge of Mr. Butterworth of the Department of Agriculture.

Several intensive short practical courses of a week's duration will be offered by specialists connected with Clemson College and the Department of Agriculture. The following are the courses to be given in 1925. They will be under the direction of the head of the division in which the work is given.

Beekeeping—Dr. F. H. Lathrop.
Dairy Husbandry—Prof. J. P. LaMaster.
Swine Husbandry—Prof. L. V. Starkey.
Poultry Husbandry—Prof. L. V. Starkey.
Peach Growing—Prof. C. C. Newman.
Practical Farm Management—Prof. W. C. Jensen.

PART VIII.—PUBLIC SERVICE

THE AGRICULTURAL EXTENSION SERVICE

The agricultural extension work of the college is carried on by the Extension Service in co-operation with the United States Department of Agriculture. The work is supported by Federal appropriations and in part by State and County appropriations. The main development of extension work has come since the enactment of the Smith-Lever Act in 1914. The purpose of Extension work is to instruct farmers of the state in the practical application of the principles of improved agriculture in both production and marketing. A staff of specialists, some of whom are also members of the Agricultural Faculty, assist the county agents in planning and carrying out demonstrations with farmers over the state.

Publications.—A large number of publications, including bulletins, circulars, posters, and information cards are distributed annually. The Weekly News Notes is published to carry matters of timely and practical interest to the editors and a few farmers of the state. A free press plate service is also furnished to those papers requesting it. In addition to this, news letters are issued on an average of three times per week and these are sent only to the newspapers. Monthly letters or printed circulars on poultry, orchards, gardening, dairying and boys club work are mailed free to those persons especially interested in these subjects.

County Agents.—Every county in the state, by co-operation in providing the finances, may have a county agent. These agents are agricultural college graduates who have had practical farm experience. They devote their time to instructing farmers through demonstrations, personal conferences meetings, community organizations. publications and letters.

Home Economics Work.—This work is carried on under the immediate supervision of Winthrop College. It is, however, a part of the Extension work under the Smith-Lever Act, and as such is under the general direction of the Extension Service. Nearly every county is provided with one home demonstration agent in the same way that they are provided with county agents.

Negro Demonstration.—A few negro local agents are employed to work with the negro farmers of the state in sections where the negro population is great. These agents are employed in co-operation with the State College at Orangeburg, and the President of the State College acts as District Supervising Agent.

Live Stock.—Work in this project is carried on with the idea of promoting the live stock interest of the state along sound permanent lines, and much progress has been made during recent years especially with hogs. The remarkable increase in the number of hogs is no greater than the increase in quality. Those desiring to purchase pure breds can now, in most cases secure them within the state from breeders who have been assisted by the Extension Service. Live stock agents have also stimulated the growing of pastures and forage crops and have assisted in the feeding and marketing of cattle and the co-operative purchase of fencing materials.

Dairying.—The Extension dairymen devote their time chiefly to development work such as bull associations, feed campaigns, dairy schools, construction of silos, barns. purchase of dairy cattle and the testing and improvement of herds. This state now ranks second in the United States in number of co-operative bull associations. The time has come when farmers wishing to purchase purebred dairy cattle can obtain first class animals within the state and very few importations are necessary.

Corn and Cotton Breeding.—Variety tests of corn and cotton are conducted in a dozen localities in the state along with demonstrations in the field selection of corn and cotton. Up to date this work has resulted in showing what varieties of corn and cotton are best adapted to different sections of the state, and farmers are generally planting those varieties. A number of communities are being given assistance in organizing for growing only one variety of cotton and one of corn.

Orchards, Gardens and Potato Storage Houses.—Orchard demonstrations, potato storage houses, home gardens and co-operative canneries are the principal lines of work developed by the Extension horticulturists. The results obtained in the last few years along these lines are far reaching, and point the way for the proper utilization of some of our acres under boll weevil conditions.

Poultry Work.—The plan is to establish and develop representative poultry plants in a number of counties in the state. These furnish reliable breeding centers from which pure bred poultry of popular breeds can be secured at reasonable prices by farmers and others. The wisdom of increasing the size and quality of farm flock is now being emphasized, together with efficiency in marketing poultry products.

Marketing.—Efforts are made to secure convenient and profitable marketing arrangements for the various crops of the state. The organization of co-operative marketing associations is being encouraged. Proper grading and loading for shipment are stressed, particularly where farmers are just beginning to produce a new crop. The College through the Extension work has been instrumental in helping a bring into existence a co-operation marketing association for selling cotton, tobacco, etc.

Entomology.—There are two principal lines of this work; first boll weevil work, and second, bee keeping work. One specialist is employed who gives a part of his time to the boll weevil work, instructing farmers as to the life history, habits, etc., of the weevil and control measures.

A specialist in bee keeping is employed to develop this industry and it has been found that this state has great possibilities along this line.

Boys' Club Work and Short Course.—Boys agricultural clubs are organized with the idea of enlisting the intelligent interest of the boys, and through them their parents, in improved methods of agriculture. To the winners of certain contests short ocurses are provided at the College during the summer months.

Organizations.—Whenever conditions are suitable for community organizations, these are encouraged and the full support of the Extension Service is lent towards making them successful.

Extension Service Staff

W. W. LONG .... Director
D. W. WATKINS .... Assistant Director
L. V. STARKEY .... Chief, Animal Husbandry Division
E. G. GODBY — Extension Livestock Specialist, Spartanaburg, S. C.
.... Livestock Agent, Florence, S. C.
J. P. LaMASTER, ... Chief, Dairy Division
C. G. CUSHMAN .... Extension Agent in Dairying
W. J. KEEGAN, ... Extension Agent in Dairying, Florence, S. C.
*C. P. BLACKWELL .... Chief, Agronomy Division
J. L. CARBERY, Extension Agronomist (plant breeding) Spartanburg, S. C.
H. H. TRYON .... Forestry Engineer, Aiken, S. C.
S. L. JEFFORDS, Extension Agronomist (forage crops) Spartanburg, S. C.
C. C. NEWMAN, ... Chief, Horticultural Division
A. E. SHILLETTER, ... Extension Horticulturist
E. H. RAWL, ...**Extension Horticulturist**
D. H. HALL, ...**Extension Poultry Specialist**
L. H. LEWIS, ... Extension Agent in Marketing, Florence, S. C.

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* On leave.

D. D. WHITCOMB,	Extension Agent in Marketing, Aiken, S. C.
C. A. OWENS	Specialist in Packing and Grading, Aiken, S. C.
F. H. LATHROP	Chief, Division of **Entomology**
E. S. PREVOST,	Bee Keeping Specialist
W. D. MOORE	Extension Plant Pathologist
B. O. WILLIAMS	Agent Boys' Club Work
I. D. LEWIS,	**Agent Boys' Club Work**
A. B. BRYAN,	Agricultural Editor
J. L. MERRITT,	Agricultural Editor

District Agents

A. A. McKeown	**First District**	Spartanburg, S. C.
T. B. Young	**Second District**	Florence, S. C.
A. H. Ward	**Third District**	Aiken, S. C.

County Agents.

Name	County	Post Office
Z. D. Robertson	Allendale	Allendale
	Abbeville	Abbeville
C. Lee Gowan	Aiken	Aiken
S. M. Byars	Anderson	Anderson
	Bamberg	Bamberg
H. G. Boylston	Barnwell	Blackville
	Beaufort	Beaufort
C. L. McCaslan	Calhoun	St. Matthews
J. H. Harvey	Berkeley	Pineopolis
G. C. McDermid	Charleston	Charleston
H. K. Sanders	Chester	Chester
W. J. Tiller	Chesterfield	Chesterfield
S. C. Stribling	Cherokee	Gaffney
F. M. Rast	Clarendon	Manning
H. M. Kinsey	Colleton	Walterboro
J. N. Napier	Darlington	Darlington
S. W. Epps	Dillon	Latta
T. M. Cathcart	Dorchester	St. George
	Edgefield	Edgefield
R. H. Lemmon	Fairfield	Winnsboro
J. W. McLendon	Florence	Florence
M. M. McCord	Georgetown	Georgetown
W. R. Gray	Greenville	Greenville
	Greenwood	Greenwood
	Horry	Conway
Gus York	Hampton	Hampton
	Jasper	Ridgeland
J. W. Sanders	Kershaw	Camden
W. F. Howell	Lancaster	Lancaster
C. L. Vaughan	Laurens	Laurens
	Lee	Bishopville
C. S. Addy	Lexington	Ballentine
	Marion	Mullins
G. H. Stewart, Jr.	Marlboro	Bennettsville

T. M. Morgan	McCormick	McCormick
T. M. Mills	Newberry	Prosperity
Rudolph Farmer	Oconee	Walhalla
J. C. Miller	Orangeburg	Orangeburg
T. A. Bowen	Pickens	Pickens
J. R. Clark	Richland	Columbia
J. M. Eleazer	Sumter	Sumter
Claude Rothell	Saluda	Saluda
Earnest Carnes	Spartanburg	Spartanburg
W. D. Wood	Union	Union
C. L. Baxter	Williamsburg	Kingstree
L. W. Johnson	York	Sharon

THE SOUTH CAROLINA AGRICULTURAL EXPERIMENT STATION

The Agricultural Experiment Station of South Carolina is a department of Clemson College. The experiment station at present consists of the main station, which is located at Clemson, and two sub-stations, one in the coast region, located at Summerville, and one in the Pee Dee section, located at Florence. The main offices and laboratories of the station occupy the second floor of the Agricultural Hall, while the station experiment farm, consisting of about 200 acres, is east of and adjoining the college campus. The investigations dealing with the fundamental principles of agricultural sciences and with the application of such principles to practical agricultural operations are carried on in the laboratories and on the experiment station farm at Clemson. The experiments looking to the adaptation of such scientific data accumulated here and elsewhere to the conditions peculiar to certain sections of the State are carried on at the sub-stations and at branch laboratories established in certain sections of the State for this purpose.

It is the aim of the experiment station to carry on research work on problems which have a direct practical bearing on the agriculture of the State. With this end in view elaborate experiments relative to the best methods of procedure under various conditions with the principal plants and animals have been undertaken. As progress is made with such experiments the results obtained are given out to farmers in the form of bulletins, circulars and personal letters. Since the establishment of the station 221 such bulletins and 31 circulars have been published, covering practically all phases of agriculture.

Aside from the research work and the publication of results obtained from such research the experiment station performs various other duties. Among these might be mentioned the entomological and pathological inspection work which aims to protect the farms, orchards and gardens of the State against the introduction of injurious insects and diseases; the biological and soil survey of the State; and the cooperative experimental work carried on with hundreds of farmers in the State. The technically trained experts of the station staff are regarded as authorities in their several specialties and they are constantly giving out information relating to the various lines of agricultural endeavor. More than fourteen thousand personal and circular letters are written annually to residents of the State giving technical information to individuals on special subjects. The station staff also aids in disseminating agricultural knowledge by co-operating with the Extension Service of the college in holding agricultural meetings and conferences and by meeting with the farm demonstration agents and giving to them technical information which they in turn carry through the demonstration work direct to the farmers.

Close cooperation is maintained with the various research bureaus of the National Department of Agriculture and with the departments of the college. The laboratories are always open to the inspection of the students and other people of the State. The same is true of the experiment station farm. There is always opportunity for a limited number of students to secure work in the various divisions of the station and to assist in the research work carried on by the members of the station staff.

A full report of the work and expenditures of the Experiment Station is published annually and this report and all other publications of the station are free and will be sent on request. Requests for these should be addressed to H. W. Barre, Director, Clemson College, S. C.

Cooperative Experimental Work.—This work is carried on under the supervision of the Director of the Experiment Station. Many farmers are enrolled in this important line, which includes a repetition of many of the experiments conducted at the parent experiment station located at the college. Co-operative experimental work is intended to verify new facts and laws under the various soil and climatic conditions in South Carolina.

Branch Experiment Stations.—In order to reinforce the main experiment station located at the college, two additional branch stations have already been established, one at Drainland in the coastal plain, and another near Florence, in the Pee Dee section. It is planned to locate a third station in the Sand Hill section of the State as soon as the college has funds for this extension.

The Boll Weevil Control

Laboratories are located at the Pee Dee station in Florence. This work is carried out in cooperation with the U. S. Department of Agriculture and is of untold value to the state.

These stations are devoted primarily to experimental work. They also form centers of dissemination for the information which the college has to give to the people.

Experiment Station Staff

H. W. BARRE, A. M., Botanist and Director.
C. C. NEWMAN, B. S., Horticulturist.
R. O. FEELEY, D. V. S., Consulting Veterinarian
C. P. BLACKWELL, M. S., Agronomist.
A. B. BRYAN, B. S., B. Litt., Agricultural Editor.
L. V. STARKEY, M. S., Animal Husbandman.
J. P. LaMASTER, B. S. Agr., Dairyman.
R. N. BRACKETT, Ph. D., Chemist.
F. H. LATHROP, Ph. D., Entomologist.
C. S. PATRICK, B. S., Superintendent of Farms.
R. E. CURRIN, Superintendent of Pee Dee Experiment Station, Florence S. C.
J. A. RILEY, M. S., Superintendent of Coast Experiment Station, Summerville, S. C.
G. M. ARMSTRONG, Ph. D., Head of Div. of Boll Weevil Control, Florence S. C.
J. H. MITCHELL, M. S., Chemist.
C. A. LUDWIG, Ph. D., Associate Botanist and Plant Pathologist.
W. B. AULL, B. S., Associate Bacteriologist.
T. S. BUIE, B. S., Associate Agronomist.
A. M. MUSSER, B. S., Associate Horticulturist.
E. E. HALL, M. S. Agronomist, Boll Weevil Control, Florence,
W. B. ROGERS, B. S., Assistant Agronomist,
C. B. NICKELS, M. S. Research Assistant Entomologist.
E. D. KYZER, B. S., Research Assistant, Florence, S. C.
G. H. AULL, B. S., Assistant to Director of Research.
W. C. JENSEN, M. S., Specialist in Agricultural Economics.
C. O. EDDY, M. S., Associate Entomologist
R. W. MORELAND, M. S., Assistant Entomologist*, Florence, S. C.
F. A. FENTON, Ph. D., Entomologist*, Florence, S. C.
E. W. DUNHAM, M. S., Asst. Entomologist*, Boll Weevil Control, Florence, S. C.
J. D. WARNER, M. S. Assistant Agronomist.
J. E. ROSS, B. S., Assistant Dairyman.*
A. L. DuRANT, M. S., Assitant Husbandman.
BURNS GILLISON, Foreman, Experiment Station Farm.

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*Detailed by United States Department of Agriculture.

LIVE STOCK SANITARY WORK

The Clemson College Live Stock Sanitary Office is a department of Clemson College and is under the supervision of the Agricultural Committee of the Board of Trustees. This office is located in Columbia, S. C., in order that the best interests of the livestock industry may be served, and is in charge of the State Veterinarian, Dr. W. K. Lewis, who is also Director of this Department.

The principal functions of this office are: Tick Eradication, Tuberculosis Eradication and Hog Cholera Control. In addition to these, all reported outbreaks of contagious, infectious and communicable diseases of live stock are investigated, and measures recommended for the control and eradication of the specific condition; and quarantine is maintained against the introduction of diseased livestock into the State.

The Columbia office has recently established a fully equipped laboratory for bacteriological and pathological work, in order that proper and prompt diagnosis of certain diseases may be made. Parasitic research work will be conducted in various sections of the State in connection with the Columbia laboratory.

In addition to the force of veterinarians working out from the Columbia office, Assistant State Veterinarians are located at strategical points in the State so as to be readily available to the farmers in their respective territories.

On July 1, 1924 twenty-five (25) practicing veterinarians of the State were commissioned as Deputy State Veterinarians, to assist the State Veterinarian in the control and eradication of contagious and infectious diseases of livestock. The Deputy State Veterinarians are located principally in the northern and eastern sections of the State, and with the Assistant State Veterinarians located in the middle and southern sections of the State, the Clemson College Live Stock Sanitary Office is in position to render a service to the livestock industry of the State in keeping with its development and maintain the service to the highest degree of efficiency.

The Clemson College Live Stock Sanitary Office also maintains an equipment for handling large stocks of anti-hog cholera serum, virus and veterinary biologics and furnishes these products to the citizens of the State at cost, thereby effecting a saving to them of several thousands of dollars annually.

The live stock sanitary work is required by legislative enactment and is supported by legislative appropriations.

The Bureau of Animal Industry, U. S. Department of Agriculture co-operates in Tick Eradication, Tuberculosis Eradication, and Hog Cholera Control, and duplicates the amounts appropriated by the State Legislature for these projects.

List of employees engaged in livestock sanitary work:—

State Veterinarian and Director.—W. K. Lewis.

Laboratory Veterinarian.—J. H .Reitz.

Assistant State Veterinarians.—H. S. Brundage, E. T. Fisher, H. B. Hood, W. D. McCormack, R. A. Mays, F. K. Peterson, S. D Shoulkin, S. M. Witherspoon, Jr., M. L. Boyd.

Clerks.—R. K. Donly, J. E. Wilson. J. M. Leaphart.

Deputy State Veterinarians.—R. M. Bailey, W. A. Barnette, M R. Blackstock, J. W. Boylston, F. P. Caughman, J. T. Dixon, H. P. Dyches, C. H. Ellis, Jr., Louis Friedham, H. L. Frieze, R. H. Glenn, M. Harkavy, L. J. Hogan, J. E. Hollis, O'Neal Jacobs, T. B. Jacobs, T. J. Kinard, F. E. Kitchen, G. J. Lawhorn, W. K. Magill, J. H. Morse, Benj. McInnes, B. K. McInnes, E. P. Stanton, B. C. Talley.

MISCELLANEOUS PUBLIC SERVICE

Fertilizer Inspection and Analysis.—The work of fertilizer inspection and analysis is under the supervision of the Board of Control consisting of ex-Governor Richard I. Manning, chairman J. E. Wannamaker of St. Matthews, J. J. Evans, Bennettsville, and H. C. Tillman, of Greenwood. The work of inspection is under the immediate supervision of H. M. Stackhouse, Secretary of the Board of Control.

There are inspectors to look after this feature of the work in different parts of the State.

The work of analysis is carried on in the Fertilizer Analysis Division of the Chemical Department and is under the supervision and direction of Dr. R. N. Brackett, Chief Chemist.

The work consists of the analysis of commercial fertilizers as provided for by the Fertilizer Law of the State. This Division also undertakes the analysis of waters, ores, minerals, and other naturally occurring materials, except soils (which are analysed by the Experiment Station), portions of human bodies in cases of suspected poisoning, as provided for by law, and the analysis of home-mixed fertilizers. All the work of this Division is done free of charge.

Entomological and Pathological Inspection.—This work is carried on under the direction of the State Crop Pest Commission.

The State Entomologist is Prof. F. H. Lathrop, head of the division of Entomology, and the State Pathologist is H. W. Barre, head of the division of Botany and Bacteriology.

The work of these officers consists of the control of contagious plant diseases and insect pests. The State Entomologist has also supervision of all nursery stock sold within the State.

A permit tag issued by the State Crop Pest Commission should be attached to every package of nursery stock. seed or plants offered for sale or shipment for planting purposes.

Agricultural and Textile Scholarships.—The college maintains 170 four-year agricultural and textile scholarships, and fifty-two one-year agricultural scholarships. Each scholarship is worth $100 and free tuition. The cost of these scholarships is paid out of the fertilizer tax, as the State makes no appropriation therefor.

The annual cost of these scholarships, including advertising, expense of holding examinations, etc., is about $20,000.00.

School Houses.—The college also furnishes free plans and specifications for rural school buildings to school trustees desiring to erect a new school house, and will advise and furnish drawings for alterations of old school houses. This work was undertaken at the request of and under the direction of the State Superintendent of Education. Further information and a copy of a bulletin on "Rural School Buildings" will be furnished by Rudolph E. Lee, college architect, upon request.

Miscellaneous.—In addition to the above regular lines of activity, the College manufactures at cost the South Carolina flag in a number of different sizes, makes annually an exhibit at the State Fair, and engages in other miscellaneous activities.

PART IX.—REGISTER

THE CORPS OF CADETS

1924-1925

UNITED STATES ARMY PERSONNELL

Lieutenant Colonel Otis R. Cole	Infantry
Captain Henry W. Lee	U. S. A. Retired
Captain Alfred G. Braden, Jr.	Infantry
Captain Ernest A. Higgins,	Infantry
Captain Thomas E. May	Infantry
First Lieut. Harold R. Emery	Infantry
First Sergeant Jesse M. Peck	Detached Enlisted Men's list
Sergeant William M. Parsons	Detached Enlisted Men't list
Sergeant Gilbert E. Naramor	Detached Enlisted Men's list

CADET REGIMENTAL ORGANIZATION

Colonel H. D. Mullins
Lieutenant Colonel F. E. Buck
Captain T. G. Roche, Adjutant
Captain S. L. Jackson, Supply Officer
Captain D. O. Herbert, Intelligence Officer
Captain R. H. Smith, Chaplain
First Lieut. J. T. Stevens, C. O. of Drum and Bugle Corps
Regimental Sergeant Major J. B. Caughman
Color Sergeant E. M. Salley
Color Sergeant G. I. Finklea

BAND

CAPTAIN	J. R. Heller
FIRST LIEUTENANT	T. A. Bonner
SECOND LIEUTENANT	J. Babb
SECOND LIEUTENANT	F. L. Cary
SECOND LIEUTENANT	I. M. Goree
SECOND LIEUTENANT	C. M. Littlejohn
SECOND LIEUTENANT	J. A. Morris
SECOND LIEUTNANT	J. T. Stevens
DRUM MAJOR	W. A. White
SERGEANT	D. R. Ergle
SERGEANT	G. W. Gignilliat
CORPORAL	L. E. Cromer

FIRST BATTALION

Major	J. E. Darby
First Lieutenant, Adjutant	E. L. Smith
Battalion Sergeant Major	W. R. Elliott

Co. A	Co. B	Co. C	Co. D
CAPTAINS			
Hambright, W. A.	Coleman, H. V.	Bailes, W. B.	Welling, C. E.
FIRST LIEUTENANTS			
Seago, J. A.	Colbert, F. H.	Johnson, C. S.	Stewart, J. D.
SECOND LIEUTENANTS			
Freeland, B. W.	Dicks, R. L.	Fletcher, E. G.	Sutherland, J. L.
Jacobi, L. W. R.	Kibler, J. W.	Hardin, J. C.	Cobb, W. H.
McPhail, M.	Knotts, W. T.	Haynsworth, C. R.	Hall, R. E.
Holmes, J. S.	Lyons. J. J.	Jennings, F. C.	Long, C. A.
Sanders, E.	O'Cain, H. F.	McCormac, E. A.	Sanders, K. B.
Simpson, W. N.	Patterson, S. N.	McCormac, J. H.	Tate, H. S.
Spencer. B. M.	Talbert, E. H.	Pruitt, R. S.	Williamson, J. G.
Taber, W. P.	Tennant, A. B.	Salley, H. D.	
	Thompson, E. A.	Sanftleben, D. A.	
FIRST SERGEANTS			
Leitzsey, F. B.	Day, C. B.	Coleman, H. C.	Sanders, J. H.
SERGEANTS			
Farmer, W. A.	Hendrix, S. H.	Brown, H. A.	Cox, F. M.
Hawkins, C. E.	Smith, R. E.	McCormac, E. L.	Roy, W. R.
Hinson, H. S.	Stewman, W. S.	Watson, S. J.	Sanders, J. R.
Jackson, R. A.	Tison, P. H.	West. C. P.	Todd, J. A.
CORPORALS			
Alexander, S. R.	Adams, J. W.	Bonnette, G. W.	Austin, P. D.
Cain, R. H.	Bryce, G. W.	Burnett, W. E.	DuPre, C. G.
Cannon, J. P.	Cromer, N. C.	Cross, J. B.	Herron, J. L.
Corbett, T. B.	James, J. H.	Crowson, J. K.	Reynolds, C. M.
Greene, J. W.	Milling, J. A.	Goodyear, C. P.	Spencer. E. P.
Stephenson, J. A.		Grice, H. S.	Wooten, R. B.
Thomason, W. E.		Ross, D. H.	

SECOND BATTALION

Major .... C. A. Robinson
First Lieutenant, Adjutant .... J. M. Longley
Battalion Sergeant Major .... J. E. Westberry

CAPTAINS

Co. E	Co. F	Co. G	Co. H
Bunch, R. L.	Williams, W. B.	Blakeney, L. R.	Keel, J. H.

FIRST LIEUTENANTS

Co. E	Co. F	Co. G	Co. H
Gillespie, B. B.	Maxwell, R. E.	Blakeney, L. B.	Craven, W. H.

SECOND LIEUTENANTS

Co. E	Co. F	Co. G	Co. H
Bauer, J. W.	Bagwell, J. C.	Hawkins, G. E.	Ayers, D. C.
McGrew, C. J.	Bell, S. L.	Huffman, W. C.	Coleman, J. M.
Mace, K. M.	Henderson, H. J.	Jones, G. L.	Goodale, T. E.
Moore, P. W.	Sharp, J. M.	Miller, J. R.	Herlong, E. S.
Outen, D. L.	Shealy, N. P.	Norton, J. J.	Kirton, M. B.
Shanklin, J. A.	Smith, D. E.	Roark, D.	Price, G. E.
Stokes, K. E.	Smith, J. E. 1st	Roark, R. B.	Traxler, W. C.
	Stoney, P. D.	Youmans, M.	

FIRST SERGEANTS

Co. E	Co. F	Co. G	Co. H
Jackson, T. G.	Thackson, A. J.	Hope, R. H.	Garrison, N. A.

SERGEANTS

Co. E	Co. F	Co. G	Co. H
Green, G. H.	Fewell, J. A.	Byrd, H. L.	Heller, W. F.
Hane, J. K.	Law, J. M.	McKeown, S. M.	Paulling, J. R.
Hane, W. W.	Trimmier, L. G.	Palmer, E. D.	Smith, B. M.
Jones, W. L.		Thomas, J. H.	Sudlow, W. H.

CORPORALS

Co. E	Co. F	Co. G	Co. H
Garrison, R. H.	Bailes, J. M.	Gillespie, S. L.	Baker, J. H.
Haskell, A. C.	Chapman, W. F.	Parker, M. L.	Brabham, H. K.
McLeod, C. E.	Gibson, D. A.	Rickborn, J. H.	Hinnant, J. L.
Marshall, R. M.	Mitchell, R. A.	Rogers, C. M.	Smoke, G. W.
Martin, W. T.	McTeer, J. R.	Sams, R. O.	Stoudamire, H. L.
Warren, J. A.		Smith, C. T.	Valentine, J. G.
Massey, L. B.			

THIRD BATTALION

Major	J. W. Chandler
First Lieutenant, Adjutant	T. J. Hart
Battalion Sergeant Major	J. Q. Wray

Co. I	Co. K	Co. L	Co. M
	CAPTAINS		
King, C. B.	Coleman, P. W.	Tibbs, R. H.	Henry, S. W.
	FIRST LIEUTENANTS		
Lewis, W. H.	Hutto, D. F.	McLees, M. C.	Flowers, H. B.
	SECOND LIEUTENANTS		
Causey, L. G.	Blair, J. W.	Asbill, C. .	Booker, L. R.
Cannon, E. A.	McLeod, N. A.	Daniel, D. M.	Graves, P.
Chappell, L. W.	McLeod, T. E.	Cartee, E. F.	Harmon, S. E.
Lewis, J. Y.	Melton, L. H.	Holmes, A. G.	Welch, W. F.
Smith, M. M.	Murr, B. L.	Lee, R. L.	Woodside, H. R.
Stewart, E. C.	Rhodes, C. F.	Pope, T. H.	
	Thrower, J. H.	Sease, E. C.	
		Sease, R. E.	
		Stribling, D. W.	
		Todd, J. N.	
		Wieters, H. C.	
		Wilson, G. C.	
		Wise, G. C.	
	FIRST SERGEANTS		
Walker, J. E.	Roche, A. O.	Cudd, J. E.	Bryan, W. W.
	SERGEANTS		
Alexander, E. R.	Boyd, J. A.	Bradley, T. I.	Bowles, H. J.
Bailey, T. L. W.	Evans, J. K.	Douglass, W. J.	Turner, G. E.
Boseman, T. R.	Shands, W. A.	McGill, C. A.	
Tinsley, H. K.	Smith, E. T.	Smyth, J. A.	
	CORPORALS		
Anderson, R. D.	Aull, J. L.	Burns, J. F.	Avent, J. K.
Brodie, G. H.	Baker, W. L.	Dowling, C. B.	Baldwin, H. L.
Page, W.	Earle, J. E.	King, J. N.	Cooper, J. R.
Thomas, J. R.	Fishbourne, F. J.	Rose, A.	Dobson, C. R.
Wallace, R. W.	Jones, R. C.	Russell, H. E.	Major, J. D.
	Newman, C. C.	Scott, J. T.	Turner, C. M.
	Youngblood, J. E.		

DEGREES AWARDED JUNE 3, 1924

BACHELOR OF SCIENCE

AGRICULTURE

Earl Richards Alford
John Calvin Aull, Jr.
Sandiford Stiles Bee
Martin Burriss Brissie
Duncan Alton Byrd
George James Scherer Capplemann
William Culp Cook
Elbert Wier Copeland, Jr.
Thomas Wier Davis
LeRoy Henning Doar
Ambrose Henry Easterby
Boyce DeWitt Ezell
Sidney Hamilton Fadley
Thomas Murray Faris
Charlton C. Garrison
John Porter Gaston
Wilbur Eugene Goff
George Herbert Griffin
Elliott Holmes Hall
Oswell Jennings Harvey
Pat Henry Hobson
Thomas Littlejohn Jefferies
Joe Frank Jones
James Gaskin Lewis
Archie Lane McCrary
Richard Simpson Martin
William Allen Mason
Simeon Christopher Matthews
Truman Jackson Murphy
James Bacot Owens
Eugene Daley Plowden
James Robert Reid, Jr.
William John Reid, Jr.
Samuel Aiton Rodgers
James Edwards Ross
George Wayne Sawyer
Ruebush George Shands
John Calhoun Shiver
Cleon Carson Stuckey
Johnnie Benjamin Talbert
Marion Roy Warner
Harry Franklin Wilson
John Wallace Wilson
Gus Cunningham Wofford
Thomas Clagett Wood, Jr.

ARCHITECTURE

Howard Bartow Dominick
David Harold Hair
Bruce K. Jones
Eugene Grier Parker
Heyward S. Singley
Joe Belton Wertz
Leslie Connor Wright

CHEMISTRY

Robert Lee Griffin, Jr.

CHEMICAL ENGINEERING

Marvin Columbus Ellison
John Richard Haynsworth

GENERAL SCIENCE

John Griffin Lewis

CIVIL ENGINEERING

William Thomas Anderson
Fleetwood Jennings Bass
Edwin Galliard Dotterer
Maxcy Alton Evans
Alfred Bell Fitzgerald
Henry Yarborough Glenn
Stephen Smith Hamilton
Leon Ariail Hendricks
Robert Ellis Hiller
John Milton Killian
Thomas Wright Lenoir
Leo Irving Martin
Moultrie Benjamin Oliver
Silas Nathaniel Pearman
William Stephen Ray
Augustus Schoolbred
James Harold Sojourner
William Marvin Wade
James Eugene Wiggins Jr.
Theodore Elwood Price Woodward

ELECTRICAL ENGINEERING

Edward Kirkpatrick Anderson, Jr.
Charles Wilmot Boynton
Clifton Albert Burriss
Allan Krama Cartwright
Francis Furman Dean
William Furman Griffin
Charles Marvin Hagan
Heyward Hutto Howard
Charles Leland Kirkley
Marion Rogers Leach
Donald Fraser Livingston
Robert Warren Pickens
Oscar Alford Roberts
James Hagood Sams, Jr.
Claude Christopher Sartor
Julian LaFayette Sheppard
William Dozier Sligh
Theodore Wilbern Smith
William Robah Smith
George Mason Speer
Francis Verner Strother
Thomas Franklin Thorne, Jr.

MECHANICAL ENGINEERING

Joseph Alexander Chambers
Arbert Roland Lloyd
Robert Otto Fortenbery
Roy Calhoun Fuller
Henry Douglas Knight
Marvin Lee McClimon
William Henry Moore
Basil Arthur Pruitt
Robert Wayne Pugh
Maurice Benjamin Rittenberg
James Robert Shannon
William Bryan Smith
Theo Lafayette Vaughan

TEXTILE ENGINEERING

Nelson Murray Bradley
John Jones Brown
Walter Frank Burriss
John Murphy Cook
Oliver Franklin Davenport
James Lennerton Ferguson
John Kay Griffin
Pascal Hamilton Hollingsworth
Levi Robert Shirley
Alton Leroy Smith
William Wortington Spearman
Thomas Calvin Stevenson
Robert Sloan Stribling
Louis Cree Tolleson
Yutaka Tsukiyama
Holland Powell Walker
Jesse Alexander White

OTHER DEGREES AWARDED JUNE 3, 1924.

Master of Science

P. H. Hobson

DEGREES AWARDED SINCE JUNE 3, 1924.

Bachelor of Science

Civil Enineering

C. T. Julian

INDUSTRIAL EDUCATION

E. E. Jefferies

Textile Engineering

W. M. Boozer
F. S. Fayssoux

REGISTER OF STUDENTS

Abbreviations: A-Agriculture unclassified; the numerals I, II, etc. following the letter A, indicates the majors listed on pages 52, 53; ARCH-Architecture; C-Chemistry; ChE-Chemical Engineering; CE-Civil Engineering; E-Engineering unclassified; EE-Electrical Engineering; ME-Mechanical Engineering; T-Textile Engineering; TE-Textile Industrial Education; GS-General Science.

DEGREES CONFERRED 1924

SENIOR CLASS

s Indicates scholarship student. County and city are the same if street only is given.

Name and Course	County	Residence
Allen, C. S. (ME)	Greenville	226 Williams St.
Asbill, C. M. (EE)	Richland	1523 Hampton St. Columbia
Ayers, D. C. (Arch)	Orangeburg	7 Hampton St.
Babb, Jack (EE)	Anderson	Pelzer
Bagwell, J. C. (AV)	Anderson	Honea Path
Bailes, W. B. (CE)	Lancaster	R. 2, Fort Mill
Barrs, T. A. (AI)	Bamberg	R. 2, Branchville
Batson, J. P. (T)	Greenville	230 David St
Bauer, J. W. (CE)	Richland	2610 Blossom St., Columbia
Bell, S. L. (EE)	Chester	Chester
Blair, J. W. (CE)	Fairfield	Blair
Blakeney, L. B. (EE)	Lancaster	Lancaster
Blakeney, L. R. (TE)	Chesterfield	Pageland
Blount, T. C. (EE)	Charleston	331 President St,
Bonner, T. A. (EE)	Spartanburg	Trough
Booker, L. R. (TE)		205 Sycamore St. Charlotte N. C.
Buck, F. E. (CE)	Sumter	221 W. Calhoun St.
Bunch, R. L. (EE)	Charleston	6 1-2 George St.
Calvert, J. P. (ME)	Union	Jonesville
Cannon, E. A. (CE)	Richland	Blythewood
Carter, D. E. (T)	Laurens	Clinton
Cartee, E F. (TE)	Pickens	Liberty
Cary, F L. (EE)	Oconee	Seneca
s Causey, L. G. (AVII)		Tabor, N. C.
Chandler, J. W. (EE)	Sumter	516 W. Liberty St.
Chappell, I W. (ME)	Fairfield	Jenkinsville
s Clark, D C. (T)	Union	E. Main St.
s Clarke, T. H. (AVII)	Kershaw	Camden
Cobb, W. H. (AII)	Richland	1912 Assembly St. Columbia
Colbert, F H. (TE)		907 D St. N. W., Ardmore, Okla.
Coleman, H V. (CE)	Saluda	R. 1, Silver Street
Coleman, J. M. (CE)	Newberry	Silver Street
Coleman, P. W. (TE)		1106 Quintard Ave., Anniston, Ala.
Corbin, J F. (AVII)	Greenville	306 Hampton Ave.
Covin, W F. (C)	McCormick	Willington
Cox, G. W. (ME)	Spartanburg	R. 1, Greer
Craven, W. H. (AV)	Marion	Eulonia

	Name and Course	County	Residence
	Croskeys, H G. (ME)	Greenville	Piedmont
	Daniel, D M. (AVI)	Williamsburg	Cooper
	Darby, J. E. (EE))	Chester	Lowryville
	Darby, J. P. (CE)	Richland	1320 Senate St. Columbia
	Dicks, R. L. (Arch.)		R. R. Lakeland, Fla.
	Edens, G. C. (AV)	Pickens	R. 4, Pickens
	Ellis, E. W. (ME)	Richland	1015 Bryan St., Columbia
	Ezell, P. B. (AV)	Spartanburg	Crosss Anchor
	Faries, C. D. (CE)	York	R. 1, Rock Hill
	Fletcher, E. G. (EE)	Marlboro	McColl
s	Flowers, H. B. (TE)	Darlington	R. 2, Darlington
	Freeman, W. C. (TE)	Greenville	R. 6, Greenville
	Friar, E. M. (EE)	Sumter	441 W. Calhoun St.
	Gillespie, B. B. (EE)	Oconee	R. 4, Seneca
s	Goodale, T. E. (TE)	Kershaw	1213 Lyttleton St. Camden
s	Goree, I. M. (TE)	Newberry	619 Wright St.
	Graves, P. (EE)	Abbeville	Abbeville
	Haas, W. V. (EE)	Union	40 Fant Ave
	Hall, R. E. (EE)	Cherokee	500 S. Johnson St. Gaffney
	Hambright, W. A. (AIV)	Cherokee	R. 1, Kingstree
	Harden, J. C. (EE)	Chester	R. 4, Chester
	Harmon, S. E. (T)	Richland	2719 Main St. Columbia
s	Hart, T. J. (AVII)	Orangeburg	R. 2, Vance
	Hawkins, G. E. (AIV)	Florence	Timmonsville
s	Haynesworth, C. R. (TE)	Sumter	29 E. Calhoun St.
	Hayes, B. M. (TE)	Anderson	Orr Station
	Henderson, H. J. (AVI)	Greenville	R. 4, Greenville
	Henry, S. W. (EE)	Allendale,	Allendale
	Herbert, D. O. (EE)	Orangeburg	Orangeburg
s	Herlong, E. S. (AIII)	Calhoun	R. 3, Box 1, St. Matthews
	Hendrix, F. S. (EE)	Aiken	Aiken
	Hodges, B. H. (Che.E)	Anderson	Starr
	Holohan, R. F. (CE)	Greenville	R. 1, Marietta
	Heller, J. R. (GS)	Oconee	Seneca
	Freeland, B. W. (AI)		Crowley, La.
	Holmes, A. G. (ME)	Oconee	Clemson College
	Holmes, J. S. (AII)	Laurens	R. 1, Mountville
	Huffman, W. C. (AIV)	Newberry	R. 1, Little Mountain
	Hutto, D. F. (EE)	Bamberg	Denmark
	Jackson, S. L. (AII)	Anderson	Starr
	Jacobi, L. W. (EE)	Greenville	204 Prentiss Ave.
	Jeffords, A. U. (EE)	Darlington	Lamar
	Jennings, F. C. (ME)	Fairfield	Winnsboro
	Johnson, C. S. (ME)		Terra Haute, Ind.
s	Jones, G. L. (AVII)	Marion	R. 1, Mullins
	Keel, J. H. (AII)	Allendale	Allendale
	Kehew, C. L. (Ch.E)		South Harpswell, Maine
s	Kibler, J. W. (AIII)	Newberry	Pomaria
	King, C. B. (AVII)	Horry	R. 1, Myrtle Beach
	Kirby, C. E. (EE)	Union	Union
s	Kirton, M. B. (Arch)	Williamsburg	Cades
	Knight, T. M. (EE)	Chesterfield	Cheraw
	Knotts, W. T. (T)	Orangeburg	R. 1, North

Name and Course	County	Residence
Lambright, F. L. (CE)	Spartanburg	Landrum
Lee, R. L. (TE)	Spartanburg	Landrum
Lewis, J. M. (AI)	Darlington	R. 1, Darlington
Lewis, W M. (ME)	Darlington	R. 1, Darlington
Littejohn, C. M. (CE)	Anderson	Belton
Long, C. A. (AII)	Horry	R. 1, Conway
Long, L. S. (AII)	Newberry	R. 3, Prosperity
Longley, J. M. (T)		405 Broad St., LaGrange, Ga.
Lyons, J. J. (TE)	Anderson	Anderson
McCormac, E. A. (AV)	Dillon	R. 1, Dillon
McCormac, J. H. (AV)	Dillon	R. 1, Dillon
McGrew, C. J. (ME)	Sumter	Sumter
McIntosh, C. H. (CE)	Clarendon	R. 1, New Zion
McLees, F. C. (AIV)	Anderson	R. 3, Townville
s McLeod,, N. A. (AIV)	Dillon	Bingham
s McLeod, T. E. (AVII)	Dillon	Bingham
s McPhail, M. (AIV)	Oconee	R. 1, Townville
Mace, K. M. (AIV)	Marion	Centenary
Maner, J. K. (AII)	Hampton	Garnett
Matthews, J. D. (CE)	Florence	Coward
Maxwell, R. E. (EE)	Richland	1408 Gregg St., Columbia
Melton, L. H. (CE)	Chester	Chester
Miller, J. R. (AIII)	York	R. 6, York
Moore, P. W. (EE)	Florence	Florence
s Morris, J. A. (TE)	Oconee	Newry
Mosely, J. W. (EE)	Orangeburg	15 Hampton St
s Mullins, H. D. (T)	Cherokee	R. 4, Gaffney
Murr, B. L. (EE)	Chester	Chester
Norton, J. J. (TE)	Oconee	Walhalla
O'Cain, H. F. (CE)	Orangeburg	Orangeburg
s Outen, D. L. (AV)	Lancaster	R. 3, Kershaw
Patterson, S. N. (EE)	Anderson	Williamston
s Phifer, G. E. (T)	Spartanburg	245 Marion Ave.
Poe, E. J. (ME)	Pickens	Central
s Pope, T. H. (T)	Greenville	802 Arlington Ave
Prause, O. B. (EE)	Charleston	204 Spring St.
Price, G. E. (EE)	Bamberg	Bamberg
Pruitt, R. S. (ME)	Anderson	Anderson
Reid, D. A. (EE)	Charleston	127 Bull St.
Rhodes, C. F. (EE)	Darlington	R. 1, Darlington
Roark, D. (CE)	Pickens	Pickens
Roark, R. B. (EE)	Pickens	Pickens
Robinson, C. A. (TE)	Fairfield	Winnsboro
Roche, T. G. (TE)	Abbeville	Abbeville
Rogers, H. W. (AIV)	Greenwood	R. 1, Callison
Rush, J. F. (AV)	Greenwood	R. 4, Greenwood
Sally, H. D. (EE) N	Aiken	Sally
Sanders, E. (AVII)	Beaufort	Okatie
s Sanders, K. B. (AIII)	Colleton	Walterboro
Sanftleben, D. A. (CE)		Brooklyn, N. Y.
Seago, J. A. (ME)	Greenwood	215 Cambridge St.
Sease, E. C. (CE)	Newberry	Prosperity
Sease, R. E. (CE)	Newberry	Prosperity
s Shanklin, J. A. (AVII)	Greenville	Greer
Sharp, J. M. (T)	York	Leslie

Name and Course	County	Residence
Shealy, N. P. (Arch)	Newberry	Prosperity
Simpson, W. N. (C)	Chester	R. 2, Richburg
s Smith, D. E. (AVII)	Newberry	Kinards
s Smith, E. L. (TE)	Anderson	1804 South Main St.
Smith, F. V. (Ch.E		904 Magnolia Ave. Charlotte, N. C.
s Smith, J. E. (TE)	Berkeley	R. 1, Ridgeville
s Smith, M. M. (TE)	Marlboro	Clio
Smith, R. H. (AV)	Colleton	R. 1., Smoaks
Spencer, B. (Arch)	Oconee	R. 1, Madison
Stello, L. T. (ME)	Charleston	116 B. Spring St.
Stevens, J. T. (AVII)	Charleston	Yonges Island
Stewart, E. C. (CE)	Anderson	Pelzer
Stewart, J. D. (ME)	Florence	Florence
Stokes, K. E. (AV)	Darlington	R. 2, Darlington
Stoney, P. D. (AVII)	Allendale	Allendale
✓ Stribling, D. W. (AII)	Oconee	R. 4, Westminister
Sutherland, J. L. (AV)	Pickens	R. 4, Pickens
Tabor, W. P. (ME)	Calhoun	Fort Motte
Talbert, E. H. (AVII)	Edgefield	Edgefield
s Tate, H. S. (TE)	Abbeville	Abbeville
Taylor, T. J. (T)	Spartanburg	R. 4, Spartanburg
Tennant, A. B. (T)	Fairfield	Winnsboro
Thompson, E. A. (CE)	Orangeburg	R. 1, Reevesville
s Thrower, J. H. (TE)	Chesterfield	Cheraw
Tibbs, R. H. (EE)	Chester	Great Falls
✓ s Timmons, J. H. (AII)	Clarendon	R. 3, Manning
Todd, J. N. (AVI)	Oconee	R. 2, Walhalla
Traxler, W. C. (AV)	Orangeburg	R. 3, Bowman
Welch, W. F. (AIV)	Marlboro	Clio
Welling, C. E. (EE)	Charleston	714 King St.
Whitton, J. E. (ME)	Florence	Florence
Wieters, H. C. (EE)	Charleston	119 Calhoun St.
Williams, W. B. (TE)	Greenville	233 Bates St.
Williamson, J. G. (AI)	Horry	R. 2, Tabor, N. C.
Wilson, G. C. (TE)	Anderson	R. 6, Honea Path
Wise, G. C. (EE)	Newberry	Prosperity
Woodside, H. R. (Arch)	Greenville	Dunean Mills, Greenville
Wooten, W. H. (AV)	Oconee	Fair Play
s Youmans, M. (AIV)	Allendale	Fairfax
Young, L. R. (Arch)	York	Rock Hill
Youngblood, J. M. (C)	York	Rock Hill
Zeigler, H. J. (CE)	Orangeburg	R. 6, Orangeburg
Zeigler, R. L. (C)	Bamberg	Denmark

JUNIOR CLASS

s Indicates scholarship student. County and city are the same if street only is given.

Name	County	Residence
Albright, W. V. (Arch)	Laurens	127 Academy St.
s Alexander, E. R. (A)	Lancaster	R. 2, Fort Mill
Anderson, O. S. (E)	Florence	R. 2, Timmonsville
Bailey, T. L. W. (A)	Laurens	Clinton
Barr, C. M. (CE)	Lexington	Leesville

Name	County	Residence
Bomar, J. T. (CE)		Portsmouth, Va.
Boseman, T. R. (E)	Darlington	R. 2, Darlington
Bouknight, L. S. Jr. (CE)	Saluda	R. 2, Batesburg
Boyd, J. A. (T)	Florence	Florence
Bowles, H. J. (E)	Greenwood	Greenwood
Bradley, D. W. (T)	Union	Union
Bradley, T. L. (Ch.E)	Richland	2825 Blossom St., Columbia
Brown, H. A. (A)	Oconee	R. 3, Westminister
Brown, W. F. (E)	Anderson	R. 2, Anderson
Bryan, W. W. (E)	Oconee	Clemson College
Buie, J. A. E. (E)	Orangeburg	Branchville
Bush, F. W. (T)		Augusta, Ga.
Byrd, H. L. (E)	Orangeburg	North
Carpenter, E. W. (T)	Greenville	530 College St.
Carson, J. W. (E)	Spartanburg	283 S. Church St.
Caughman, J. B. (CE)	Richland	1013 Sumter St., Columbia
Causley, J. E. (E)	Chester	Chester
Chapman, W. E. (Arch)	Anderson	R. 2, Pendleton
Cochran, G. B. (A)	Greenwood	R. 1, Donalds
s Coleman, H. C. (A)	Richland	R. 2, Hopkins
Corn, H. E. (E)	Anderson	701 W. End Avenue
Cox, F. M. (E)	Anderson	Belton
Cox, H. A. (E)	Calhoun	St. Matthews
Cox, S. M. (E)	Oconee	R. 3, Seneca
s Crain, M. C. (A)	Greenville	R. 1, Taylors
s Creighton, J. T. (A)	Aiken	North Augusta
Cudd, J. E. (Arch)	Union	Jonesville
s Culler, F. N. (A)	Lexington	Swansea
Curdts, E. C. (T)	Greenville	513 Townes St.
Cureton, R. H. (E)	Greenville	1420 Pendleton St.
Darby, C. P. (CE)	Charleston	Mt. Pleasant
Darby, J. M. (T)	Anderson	Sandy Springs
Davis, J. A. (E)	Sumter	515 W. Oakland Ave.
Day, C. B. (E)	Edgefield	Trenton
DeLoache, E. C. (E)	Kershaw	Camden
DeLoache, L. D. (T)	Kershaw	Camden
Dial, W. A. (E)	Laurens	Cross Hill
Dorsett, R. R. (C)	York	York
Douglass, W. J. (A)	Union	Jonesville
DuVernet, W. R. (E)	Greenville	R. 1, Greenville
Easterling, K. (E)	Marlboro	Bennettsville
Edwards, R. M. (A)	Calhoun	R. 1, Elloree
Elliott, W. R. (T)	Fairfield	Winnsboro
Epting, J. C. (A)	Newberry	Little Mountain
Ergle, D. R. (C)		Augusta, Ga.
Evans, J. K. (E)	Beaufort	Beaufort
s Farmer, W. A. (A)	Anderson	619 North Avenue
Felder, J. C. (E)	Sumter	2 Edwards St.
Fewell, J. A. (T)	York	Rock Hill
Finklea, G. I. (E)	Florence	Hyman
Fleming, J. M. (A)	Laurens	Lanford
Foster, R. M. (A)	Spartanburg	White Stone
Fulmer, C. E. (CE)	Orangeburg	Cope
Gaffney, H. E. (E)	Cherokee	Gaffney
Garrison, C. R. (A)	Oconee	Seneca
Garrison, N. A. (E)	Anderson	Sandy Springs

	Name and Course	County	Residence
	Garvin, B. W. (E)	Aiken	Seivern
	Garvin, C. W. (CE)	Aiken	Seivern
	Gignilliat, G. W. (T)	Oconee	Seneca
	Gilmer, F. S. (T)	Anderson	Anderson
	Green, G. H. (E)	Greenville	R. 4, Greer
	Guess, J. P. (A)	Allendale	Appleton
	Hall, F. B. (E)	Anderson	Iva
	Hane, J. K. (A)	Calhoun	Fort Motte
	Hane, W. W. (A)	Calhoun	St. Matthews
	Harrelson, O. M. (E)	Horry	Lanes
	Hawkins, C. E. (C)	Anderson	Starr
	Heller, W. F. (E)	Anderson	Sandy Springs
	Hendee, M. H. (T)		Augusta, Ga.
	Hendrix, S. H. (T)	Lexington	Lexington
s	Henery, W. J. (A)	Union	R. 1, Sedalia
	Hester, J. B. (C)	Pickens	R. 2, Easley
	Hinson, E. M. (Ch.E.)	Kershaw	R. 1, Blaney
s	Hinson, H. S. (A)	Lee	Lynchburg
	Hollis, P. T. (T)	Chester	Richburg
	Hope, R. H. (T)	York	R. 7, Rock Hill
	Horn, M. D. (T)		Tallassee, Ala.
s	Howle, J. P. (A)	Darlington	R. 1, Hartsville
	Jackson, R. A. (A)	Anderson	Starr
s	Jackson, T. G. (T)	Florence	Florence
	Jeffords, C. H. CE)	Darlington	Darlington
	Jones, W. L. (E)	Greenville	Greer
	Jordan, A. F. Ch.E)	Union	Union
s	Jordan, E. H. (A)	Darlington	R. 5, Timmonsville
	Jordan, R. C. (A)	Chester	R. 1, Bascomville
	Kearse, F. G. (E)	Hampton	Crockettville
s	Kennedy, E. C. (A)	Sumter	Sumter
	King, B. D. (E)	Lexington	R. 2, Swansea
	King, J. E. (Arch)		Rocky Mount, N. C.
	Kinard, J. V. (T)		47 Gardener St., Atlanta, Ga.
	Kirkland, C. R. (E)	Kershaw	Camden
	Kirkland, R. R. (E)	Kershaw	Camden
s	Kizer, H. F. (A)	Dorchester	St. George
	Kluch, W. W. (A)	Pickens	Clemson College
s	Law, J. M. (A)	Florence	Scranton
	Lee, S. A. (E)	Orangeburg	Orangeburg
	Leiztsey, F. B. (Ch.E)	Richland	906 Columbia Avenue Columbia
s	Lemmon, J. M. (A)	Lee	Lynchburg
	Long, E. M. (E)	York	Rock Hill
s	McAllister, L. C. (A)	Anderson	Pendleton
	McClellan, G. W. (A)	Anderson	R. 4, Anderson
	McCormac, E. L. (T)	Dillon	R. 1, Dillon
s	McCracken, H. E. (A)	Richland	R. 1, Hopkins
	McGraw, F. G. (TE)	Cherokee	Gaffney
	McCraw, L. G. (A)	Cherokee	Gaffney
	McGee, E. T. (CE)	Anderson	Starr
	McGill, C. A. (E)	Anderson	202 Maxwell Avenue
	McKeown, S. M. (TE)	Chester	Cornwell
	McKerley, J. B. (CE)	Barnwell	R. 2, Elko
	Marshall, J. C. (E)	Anderson	430 Marshall Avenue
	Martin, B. V. (E)	Oconee	Clemson College
	Mayfield, J. T. (E)	Bamberg	Denmark

	Name and Course	County	Residence
	Meredith, P. F. (Arch)	Pickens	Central
	Nance, R. D. (C)	Laurens	Cross Hill
	O'Bryan, E. C. (CE	Williamsburg	Heineman
s	Padgett, A. B. (A)	Colleton	Smoaks
	Palmer, E. D. (E)	Pickens	Central
	Park, W. C. (T)		Augusta, Ga.
	Paulling, J. R. (A)	Calhoun	St. Matthews
	Pepper, W. C. (E)	Anderson	1003 W. Market
	Porter, L. A. (TE)	Orangeburg	Springfield
s	Price, L. C. (E)	Bamberg	Bamberg
	Pruitt, A. (E)	Anderson	320 W. Franklin
	Pruitt, J. M. (TE)	Anderson	R. 1, Anderson
	Roche, A. O. (E)	Abbeville	Abbeville
	Rogers, C. H. (A)	Marion	R. 1, Mullins
	Rowland, J. R. (E)	Pickens	Central
	Roy, W. R. (Ch.E)	Richland	2205 Gadsden St., Columbia
	Salley, E. M. (E)		Saluda, N. C.
	Salley, L. J. (E)	Aiken	Salley
	Sanders, J. H. (T)	Chester	Chester
	Sanders, J. R. (E)	Chester	Chester
	Sanders, V. C. (E)	Newberry	Newberry
s	Shands, W. A. (A)	Florence	Ebenezer
	Silcox, D. A. (E)	Charleston	Mt. Pleasant
	Simkins, L. H. (A)		R. 3, Augusta, Ga.
	Smith, B. M. (CE)	Anderson	Starr
	Smith, E. D. (CE)	Florence	Florence
	Smith, E. T. (E)	Anderson	318 White St.
s	Smith, G. A. (A)	Anderson	1201 N. Main
	Smith, J. R. (E)	Greenville	506 Perry Ave.
	Smith, R. E. (Arch)	Cherokee	Blacksburg
	Smyth, J. A. (A)		R. 1, Flat Rock, N. C.
	Steer, R. D. (A)	Laurens	Clinton
	Stevenson, N. W. (E)	Anderson	1128 S. Main
	Stewman, W. S. (E)	Lancaster	Lancaster
	Strickland, P. (A)	Anderson	Belton
	Stringfellow, W. K. (T)	Charleston	145 Rutledge Ave.
	Sudlow, W. H. (E)	Aiken	Aiken
	Swords, P. E. (A)	Anderson	R. 1, Central
	Taylor, W. H. (T)	Laurens	Laurens
	Thackston, A. J. (E)	Orangeburg	Orangeburg
	Thomas, J. H. (A)	Colleton	R. 3, Ruffin
s	Thomas, H. L. (A)	Sumter	Mayesville
	Tinsley, H. K. (A)	Greenwood	Hodges
s	Tison, P. H. (A)	Allendale	Allendale
	Todd, J. A. (E)	Anderson	R. 2, Starr
	Tozier, L. R. (Arch)	Sumter	R. 5, Sumter
s	Trent, R. L. (A)	Spartanburg	Clifton
	Trimmier, L. G. (D)	Spartanburg	137 Oakwood, Ave.
	Turner, G. E. (E)	Anderson	Anderson
	Vand de Erve, J. M. (E)	Dorchester	Summerville
	Verdery, C. B. (T)	Greenville	307 E. Park Ave.
s	Walker, J. E. (T)	Barnwell	Blackville
	Wallace, J. J. (T)	Kershaw	Camden
s	Watson, J. R. (E)	Saluda	Batesburg
	Watson, S. J. (A)	Edgefield	Johnston
	Watson, T. C. (Arch.)	Lexington	Batesburg

Name and Course	County	Residence
s Wells, S. F. (A)	Sumter	R. 5, Sumter
West, W. (CE)	Spartanburg	278 N. Church St.
Westbury, J. E. (E)	Georgetown	Georgetown
Whetsell, J. A. (A)	Orangeburg	R. 3, Parler
Whetsell, M. H. (A)	Orangeburg	R. 3, Bowman
Whilden, C. N. (E)	Sumter	117 Church St.
s White, W. A. (A)	Chester	Chester
s Wilbanks, B. H. (A)	Oconee	Clemson College
Wilkes, W. M. (A)	Marlboro	Clio
s Wilson, C. J. (A)	Clarendon	Manning
s Wilson, F. E. (A)	Jasper	Ridgeland
Wilson, W. W. (A)		Russelville, Ark.
Wray, J. Q. (E)	York	York
Wright, J. B. (E)	Fairfield	Shelton
Zagora, O. F. (E)		1305 Mint St. Charlotte, N. C.

SOPHOMORE CLASS

s Indicates scholarship student. County and city are the same if street only is given.

Name and Course	County	Residence
Adams, J. W. (E)		Jemison, Ala.
Adams, L. C. (E)	McCormick	Meriweather
Alexander, J. S. (E)	Greenville	108 Means St.
Alexander, S. R. (A)	Anderson	R. 2, Anderson
Anderson, C. W. (E)		Guilford, N. C.
s Anderson, R. D. (A)	Marlboro	Clio
Askin, H. W. (E)	Florence	Timmonsville
Aull, J. L. (E)	Newberry	Pomaria
Austin, P. B. (E)	Greenville	412 Townes St.
Avent, J. K. (E)	Marlboro	Bennettsville
Bailes, J. M. (A)	Lancaster	R. 2, Fort Mill
Bailey, M. A. (E)	Greenwood	Greenwood
s Baker, J. H. (A)	Orangeburg	R. 3, Orangeburg
s Baker, W. L. (A)	Chesterfield	R. 1, Jefferson
Baldwin, H. L. (E)	Orangeburg	Orangeburg
Bates, P. G. (E)	Greenville	Marietta
Bauman, R. C. (E)	Greenville	105 Hampton Ave.
Beason, G. H. (E)	Spartanburg	Woodruff
Beam, F. A. (A)	Anderson	R. 4, Pelzer
Bennett, C. C. (A)	York	R. 3. Fort Mill
Bennett, W. M. (GS)	Colleton	Ashton
Berry, W. J. (E)	Spartanburg	Wellford
Bethea, T. J. (E)	Marlboro	McColl
Blackwell, T. J. (E)	Williamburg	R. 2, Salters Depot
Bobo, N. (E)	Spartanburg	Woodruff
Bonnette, G. W. (A)	Saluda	R. 2, Monetta
Boyce, M. O. (E)	Laurens	Cross Hill
Brabham, H. K.	Bamberg	Bamberg
Bradley, W. W. (E)	Clarendon	Manning
Breland, A. D. (A)	Colleton	Cottageville
Brice, R. W. (A)	Sumter	Wedgefield
Brock, J. L. (E)	Pickens	Central
Brodie, G. H. (E)	Aiken	R. 2, Sally.

Name and Course	County	Residence
Brown, T. L. (A)	Cherokee	Gaffney
Brown, T. P. (E)	York	Fort Mill
Brown, W. A. (A)	Sumter	414 Hampton Ave.
Brown, W. C. (A)	Anderson	Belton
Bruner, H. P. (A)	Sumter	339 W. Liberty St.
Bruner, W. C. (E)	Williamsburg	Lanes
Bryce, G. W. (Arch)	Florence	Florence
Buie, G. S. (E)	Chesterfield	Patrick
Burley, F. A. (E)	Fairfield	Monticello
Burnett, W. E. (E)	Spartanburg	Wellford
Cain, R. H. (A)	York	Sharon
Calhoun, W. B. (A)	Allendale	Baldock
Cannon, A. M. (E)	Laurens	R. 2, Mountville
Cannon, J. P. (E)	Anderson	R. 1, Honea Path
Carter, T. H. (A)	Florence	R. 3, Timmonsville
s Cash, D. H. (A)	Spartanburg	Chesnee
Caughman, E. M. (A)	Lexington	Lexington
Causey, O. R. (A)	Horry	R. 2, Tabor, S. C.
Chapman, A. H. (E)	Greenville	R. 6, Greenville
Chapman, H. (E)	Pickens	Calhoun
Chapman, W. F. (A)	Anderson	R. 4, Belton
Cheek, T. H. (A)	Anderson	R. 3, Iva
Chreitzberg, C. H. (E)	Anderson	R. 1, Williamston
Clinton, T. F. (A)	Chester	R. 1, Edgemoor
Coan, J. H. (E)	Spartanburg	Wellford
Cooper, J. R. (E)	Anderson	Belton
Corbett, T. B. (E)	Colleton	Walterboro
Counts, R. H. (Arch)	Laurens	427 West Main
Cox, W. A. (Arch)	Greenville	470 W. Washington
Cromer, L. E. (A)	Oconee	Seneca
s Cromer, N. C. (A)	Anderson	Sandy Springs
Cross, J. B. (A)	Oconee	Westminster
s Crowson, J. K. (E)	Richland	Columbia
s Culler, R. B. (A)	Lancaster	Lancaster
s Culler, R. B. (A)	Aiken	R. 1, Kitchings Mill
Cummings, R. L. (A)	Anderson	R. 1, Belton
Conningham, W. R. (E)	Lee	Bishopville
Currance, R. C. (A)		Gastonia, N. C.
Darden, J. B. (E)	Spartanburg	139 Dallas Place
DeYoung, D. F. (Arch)	Anderson	Belton
Dill, R. C. (E)	Greenville	R. 2, Greenville
Dixon, R. C. (E)	Sumter	30 S. Salem Ave.
Dobson, C. R. (Arch)	Lancaster	R. 4, Lancaster
Donaldson, J. H. (Arch)	Georgetown	Georgetown
s Dorn, T. E. (A)	Greenwood	R. 4, Greenwood
Dove, W. S. (E)	Darlington	Dovesville
Dowling, C. B. (E)	Lexington	Swansea
Duggan, O. R. (E)	Pickens	Central
Dunbar, L. D. (E)	Spartanburg	207 Pine St.
DuPre, C. C. (E)	Richland	1870 Pendleton St. Columbia
Earle, J. L. (E)	Anderson	R. 2, Starr
Elms, H. S. (E)	Lancaster	R. 3, Fort Mill
Ellzey, M. A. (E)		Effingham, Ga.
Emerson, R. W. (A)	Greenwood	Hodges

	Name and Course	County	Residence
	Etheredge, T. J. (E)	Lexington	Batesburg
	Faust, C. C. (E)	Bamberg	Denmark
	Finch, M. C. (Arch)		Rocky Mount, N. C.
	Finley, H. L. (A)	Pickens	Easley
	Fishburne, F. J. (E)	Charleston	62 N. Alexander St.
	Fowler, B. (E)		Stamford, Texas
	Franklow, M. L. (E)	Lexington	Leesville
	Funderburk, O. F. (E)	Chester	Great Falls
	Garnett, J. K. (A)	Hampton	R. 1, Garnett
	Garrison, R. H. (A)	Anderson	Sandy Springs
	Gerroud, F. H. (A)	Anderson,	R 4, Anderson
	Gibson, D. A. (E)	Union	Union
	Gibson, J. T. (A)	York	R. 1, Fort Mill
	Gillespie, S. L. (E)	Darlington	R. 3, Hartsville
	Gilmore, H. S. (A)	Orangeburg	Holly Hill
s	Goff, H. B. (A)	Saluda	R. 4, Leesville
	Goodyear, C. P. (A)	Marion	R. 1, Nichols
	Googe, W. J. (E)	Allendale	Fairfax
	Green, C. H. (E)	Sumter	210 Broad St.
	Greene, J. W. (E)	Greenville	Dunean Mills
s	Grice, H. S. (A)	Saluda	R. 2, Ward
	Hall, J. H. (Arch)	Cherokee	Gaffney
	Hamrick, F. G. (A)	Cherokee	R. 9, Gaffney
	Hardee, J. H. (E)	Chester	Lowryville
	Harvin, O. D. (A)	Sumter	Pinewood
	Haskell, A. C. (A)	Aiken	R. 4. Augusta, Ga.
	Hayden, E. C. (A)	Orangeburg	Cope
	Hayden, L. (E)	Orangeburg	R. 2, Orangeburg
	Hayden, T. J. (E)	Orangeburg	Rowesville
	Hayes, T. W. (A)	Dillon	Latta
	Henderson, E. M. (E)	Richland	2120 Logan Terrace Columbia
	Hendrix, T. J. (A)	Spartanburg	R. 1. Duncan
s	Heriot, L. W. (E)	Clarendon	Manning
	Herron, J. L. (A)	Anderson	Starr
	Hicks, M. H. (E)	Darlington	Hartsville
	Hinnant, J. L. (E)	Richland	R. 3, Blythewood
	Hinson, L. O. (E)	Florence	Scranton
	Hodges, H. M. (E)	Marlboro	Brownsville
s	Hutto, S. G. (A)	Bamberg	Denmark
	Hyman, J. M. (A)	Florence	Pamplico
s	James, J. H. (A)	Greenville	R. 4, Greer
	James, S. H. (Arch)		Waycross, Ga.
	Jeffcoat, W. A. (E)		Bluefield, W. Va.
	Johns, J. H. (A)	Oconee	R. 1, Westminster
	Johnson, C. P. (E)	Aiken	Aiken
	Jones, O. F. (A)	Pickens	R. 3, Easley
s	Jones, R. C. (E)	Bamberg	Bamberg
	Jones, W. E. (E)	Kershaw	R. 2. Bethune
	Keenan, H. E. (Arch)	Aiken	Graniteville
	Kershaw, J. (E)	Aiken	N. Augusta
	Kinard, F. W. (A)	Lexington	Leesville
	Kinard, J. A. (A)	Colleton	R. 5. Ruffin
	Kinard, H. H. (A)	Greenwood	Ninety-Six
	King, J. A. (E)	Sumter	101 E. Hampton Ave.
	King, J. L. (A)	Anderson	R. 1 Anderson

	Name and Course	County	Residence
	King, J. W. (CL)	Cherokee	Gaffrey
s	Kirby, K. M. (E)	Dorchester	St. George
	Kirk, E. S. (E)	York	Rock Hill
	Kitchen, T. W. (E)	Greenville	Greenville
	Knight, J. D. (E)	Chesterfield	Angelus
	Knotts, F. L. (E)	Orangeburg	R. 1, North
	LaBaron, F. P. (CE)		St. Petersburg, Fla.
	LaBruce, A. F. (E)	Georgetown	Georgetown
	Langford, C. H. (A)	Richland	Blythewood
	Lawton, B. M. (E)	Hampton	Lena
	Lenhardt, B. F. (A)	Pickens	R. 1, Easley
	Liles, S. E. (E)	Marlboro	McColl
	Lineberger, C. H. (E)	Greenville	524 Hampton Ave.
	Little, T. R. (E)	Anderson	R. 2, Starr
	Long, J. T. (E)	Pickens	R. 1, Central
	Love, J. D. (E)	York	McConnellsville
	McCullough, S. H. (A)	Williamsburg	R. 1, Kingstree
	McCutcheon, J. C. (E)	Williamsburg	R. 1, Nesmith
	McDaniel, S. W. (Arch)	Beaufort	Beaufort
	McDaniel, W. C. (A)	Florence	R. 5, Timmonsville
	McHugh, R. S. (A)	Oconee	Clemson College
	McLeod, C. E. (A)	Beaufort	Beaufort
	McMillian, F. W. (E)	Marion	Mullins
	McTeer, J. R. (E)	Colleton	Walterboro
	Major, J. D. (A)	Anderson	R. 2, Belton
	Mangum, W. S. (A)	Marlboro	R. 1, McColl
	Marshall, R. M. (E)	Beaufort	Beaufort
s	Martin, W. T. (A)	Spartanburg	Chesnee
s	Massey, L. B. (A)	Anderson	R. 2, Pendleton
	Maxwell, W. C. (A)		R. 1, Rydal, Ga.
s	Metz, G. E. (A)	Charleston	515 Huger St.
s	Miley, P. (A)	Hampton	R. 1, Brunson
	Miller, L. R. (E)	Marlboro	Bennettsville
	Miller, P. H. (E)	Marlboro	Tatum
	Miller, O. L. (E)	York	Rock Hill
	Milling, J. A. (E)	Greenwood	Greenwood
	Mitchell, R. H. (E)	Aiken	North Augusta
	Montgomery, S. M. (E)	Marion	Marion
	Moon, C. T. (GS)	Oconee	Seneca
	Neal, A. J. (A)	Lancaster	R. 1, Heath Springs
	Nettles, E. W. (A)	Sumter	Wedgefield
	Newman, C. C. (A)	Oconee	Clemson College
	Nickles, W. D. (E)	Anderson	Pelzer
	O'Dell, W. R. (A)	Pickens	R. 3, Liberty
	Page, W. (A)	Horry	Aynor
s	Pardue, W. A. (E)	Edgefield	R. 3, Trenton
	Parker, W. E. (E)	McCormick	Troy
	Parler, M. L. (Arch)	Sumter	Wedgefield
s	Parnell, C. L. (A)	Jasper	Gillisonville
	Percival, S. M. (CE)	York	York Hill
	Phillips, C. Y. (E)	Pickens	Norris
s	Pickelsimer, D. L. (E)	Anderson	Anderson
	Pinson, M. C. (E)	Laurens	Cross Hill
	Pruitt, W. H. (A)	Anderson	R. 8, Anderson
s	Rasor, H. L. (A)	Greenwood	R. 1, Donalds

Name and Course	County	Residence
s Reed, L. B. (A)	Anderson	R. 7, Anderson
Reynolds, C. N. (E)	Marlboro	Bennettsville
Richardson, M. B. (E)	Anderson	R. 1, Pendleton
Richey, B. R. (A)	Greenwood	Ware Shoals
Rickborn, J. H. (A)	Dorchester	Reesville
Robbins, L. L. (E)	Dorchester	St. George
Robinson, S. O. (E)	York	York
Rodgers, C. M. (A)	Anderson	R. 1, Pelzer
Ropp, J. W. (E)	Laurens	Cross Hill
Rosamond, J. E. (E)	Greenville	R. 5, Greenville
Rose, A. (E)	Greenville	806 E. McBee Ave.
s Ross, D. H. (E)	Florence	Florence
s Rudloff, C. N. (A)	Berkeley	Pinopolis
Russell, H. E. (E)	Pickens	Easley
Salley C. T. (A)	Aiken	Sally
Salley, K. F. (A)	Aiken	Sally
Salter, F. S. (A)	Edgefield	Trenton
Sams, R. O. (E)	Union	Jonesville
Sandell, F. L. (CE)	Richland	1218 Senate St. Columbia
Sanders, M. H. (E)	Sumter	Hagood
Sanders, M. K. (E)	Sumter	Hagood
Scott, J, T, (E)	Uuion	Jonesville
Seaborn, L. A. (E)	Oconee	Walhalla
Sessions, J. C. (E)	Horry	Conway
Sharp, G. W. (A)	York	Leslie
Shelamer, H. D. (E)	Richland	1425 Hampton St. Columbia
Sheriff, J. M. (E)	Orangeburg	Orangeburg
s Shore, F. W. (A)	Spartanburg	Greer
Shull, W. G. (E)	Greenville	238 West Stone Ave.
Skinner, T. B. (A)	Spartanburg	R. 3, Woodruff
Smith, C. T. (A)	Newberry	R. 1, Kinards
Smith, J. E. (A)	Anderson	R. 2, Pendleton
Smith, S. T. (A)	Horry	R. 1 Conway
Smith, T. E. (E)	Orangeburg	Rowesville
s Smoke, G. W. (E)	Calhoun	St. Matthews
Sparks, R. H. (E)	Cherokee	Gaffney
s Spencer, E. P. (A)		McFarlan, N. C.
Stelling, R. N. (A)	Aiken	North Augusta
Stephenson, J. A. (A)	York	R. 2. Sharon
Stogner, J. R. (A)	Darlington	Hartsville
Stork, W. (Arch)	Richland	1716 Lower St., Columbia
Stoutamire, H. L. (A)	Orangeburg	R. 3, Holly Hill
Stribling, T. S. (E)	Oconee	Seneca
Sutherland, E. S. (E)	Pickens	R. 4, Pickens
s Sykes, L. C. (E)	Orangeburg	Orangeburg
s Talbert, J. H. (A)	McCormick	R. 1, McCormick
Tarrant, W. E. (E)	Greenville	Piedmont
Thomas, J. R. (E)	Orangeburg	R. 2, Cope
s Thomason, W. E. (A)	Spartanburg	Woodruff
Thomason, B. K. (E)	Spartanburg	Landrum
Thomason, D. P. (E)	Oconee	Seneca
Townsend, T. S. (A)	Charleston	R. 1, Martins Point
Turpin, D. W. (E)	Spartanburg	Grarmling
Tyler, R. T. (A)	Orangeburg	R. 3, Orangeburg
Valentine, J. G. (A)	Orangeburg	R. 3, Cope
Vandiver, E. H. (E)	Pickens	Calhoun

	Name and Course	County	Residence
	Wallace, J. C. (A)	Anderson	R. 1, Pendleton
	Ward, H. P. (Arch)	Georgetown	Georgetown
	Warren, J. A. (E)	Sumter	126 N. Salem Ave.
s	Weathersbee, A. A. (A)	Aiken	R. 1, Ellenton
s	Weigle, C. C. (A)	Anderson	R. 1, Belton
	White, A. H. (A)	Greenville	R. 2, Simpsonville
	West, C. P. (T)	Greenville	Greenville
	White, P. L. (E)		925, Heard Ave. Augusta, Ga.
	Williams, B. L. (A)	Greenwood	Gaines
	Williams, W. L. (E)	York	R. 4, Rock Hill
	Williamson, J. W. (A)	Dillon	R. 1, Hamer
	Wilson, J. U. (E)		Villa Rica, Ga.
	Wright, G. F. (E)	Greenville	582 Pettigru St.,
s	Yarborough, H. W. (A)	Fairfield	Wallaceville
s	Youngblood, J. E. (A)	Barnwell	Elko

FRESHMAN CLASS

s Indicates scholarship student. County and city are the same if street only is given.

Name and County	County	Residence
Abbott, W. B. (E)	Oconee	Walhalla
Adams, A. B. (E)		Sycamore, Ga.
Abbergotti, J. C. (A)	Aiken	803 Florence St., Aiken
Albrecht, R. T. (E)	Orangeburg	5 Hampton St. Orangeburg
Alexander, D. O. (E)		Nashville. Tenn
Allen, C. C. (Arch)	Darlington,	318 Darlington Ave., Darlington
Allison, L. D. (Arch)	Greenville	130 Rutherford St. Greenville
Anderson, C. E. (E)	Florence	605 Bryce St. Timmonsville
Anderson, J. B. (E)	Chester	Richburg
Anderson, M. H. (A)	Florence	R. 2, Timmonsville
Anderson, R. N. (E)	Richland	719 Elmwood Ave. Columbia
Anderson, W. (McK. (A)	Chester	Chester
Arnold, T. R. (A)	Pickens	R. 3, Central
Askew, H. B. (E)	Union	Union
Atkinson, J. (Arch)	Florence	Florence
Austin, W. A. (A)	Orangeburg	R. 2, Orangeburg
Avent, J. J. (E)	Marlboro	Bennettsville
Bagwell, W. W. (E)	Spartanburg	Glendale
Ballenger, R. G. (Arch)	Spartanburg	Wellford
Barron, W. H. (E)	York	York
Barton, L. S. (Arch)	Orangeburg	R. 2. Orangeburg
Beach, A. K. (E)	Colleton	Walterboro
Beam, H. F. (E)	Greenville	Pelzer
Bearden, (A)	Oconee	R. 4. Seneca
Benson, J. T. (A)	Greenville	R. 2. Simpsonville
Bell, C. M. (E)	Chester	Chester
Bell, J. L. (E)	Anderson	E. Market St. Anderson
Bennett, G. J. (E)	Marlboro	Box 386. McCol.
Bethea, W. M. (A)	Marlboro	McCol.
Bickley, B. L. (A)		Caldwell, N. C.
Bishop, W. A. (E)	Spartanburg	R. 3. Woodruff
Blackwell, F. M. (E)	McCormick	McCormick
Blackwell, J. D. (E)	Sumter	Mayesville

	Name and County	County	Residence
	Blackwell, W. G. (A)	McCormick	Parksville
S	Blakeney, C. R. (E)	Lancaster	R. 2, Lancaster
	Bolt, G. W. (A)	Laurens	R. 5, Laurens
	Boseman, J. C. (E)	Darlington	R. 4, Darlington
	Bradley, M. E. (E)	Oconee	Clemson College
	Breedlove, W. (E)	Pickens	R. 2, Pickens
	Bristow, G. J. (A)	Marlboro	R. 3 Marlboro
	Britt, C. E. (E)	McCormick	McCormick
	Britt, J. O. (A)	Florence	R. 2, Timmonsville
	Brogen, W. J. (E)	Sumter	112 N. Salem Ave. Sumter
s	Brown, H. C. (A)	McCormick	McCormick
	Bruner, J. W. (A)	Orangeburg	R. 4, Orangeburg
	Bryan, C. A. (A)	Allendale	R. 1, Allendale
	Bryce, G. T. (Arch.)	Florence	643 West Evans St. Florence
	Buford, J. A. (E)	Laurens	R Clinton
	Bullard, W. D. (Chem.)		Albany, Ga.
	Burgess, J. T. (E)	Laurens	Lanford
s	Burgess, R. H. (A)	Anderson	R. 3, Belton
	Burley, J. A. (E)	Oconee	Walhalla
	Burley, J. E. (E)	Oconee	Walhalla
	Burriss, L. J. (E)	Anderson	R 1 Anderson
	Byrd, W. L. (A)	Dorchester	St. George
	Campbell, M. M. (E)	Greenville	108 E. Washington St. Greenville
	Campbell, T. A. (E)	Anderson	R. 6 Anderson
s	Cannon, F. P. (A)	Richland	Blythwood
s	Carroll, G. H. (A)	York	R. 1 York
	Carson, S. C. (A)	Pickens	R. 1 Central
	Carter, S. T. (E)	Richland	909 King St. Columbia
	Carter, W. H. (E)	Bamberg	Lodge
	Carver, J. J. (E)	Spartanburg	Fariforest
	Cato, J. B. (E)	Chesterfield	Pageland
	Candler, J. H. (E)	Bamberg	Bamberg
	Chandler, L. D. (E)	Sumter	516 W. Liberty St. Sumter
	Chapman, H. T. (E)	Spartanburg	Inman
	Clark, J. H. (E)	Abbeville	Calhoun Falls
	Clark, W. H. (A)	Anderson	R 4, Pendleton
	Clary, M. V. (A)	Cherokee	R. 3, Gaffney
	Coleman, A. B. (A)	Fairfield	Ridgeway
	Collings, Harry (E)	Oconee	Walhalla
	Connor, W. (A)	Orangeburg	R. Orangeburg
	Cook, J. B. (A)	Laurens	R. 2, Fountain Inn
	Cook, L. A. (A)	Laurens	R. 2, Fountain Inn
	Cooksey, R. H. (A)	Cherokee	Blacksburg
	Cooley, T. F. (A)	Abbeville	Loundesville
	Cooper, P. F. (E)	Bamberg	Denmark
s	Corley, S. R. (A)	Lexington	R. 6, Lexington
	Covington, J. B. (E)	Marlboro	Bennettsville
	Cox, E. R. (A)	Anderson	Belton
	Cox, W. H. (A)	Greenville	R. 1, Simpsonville
	Creech, J. C. (Arch)	Cherokee	Gaffney
	Crook, M. D. (E)	York	R 1, Fort Mill
	Culler, E. W. (E)	Orangeburg	Star Route Orangeburg
	Cullum, F. E. (E)	Lexington	Batesburg
	Cunningham, D. W. (E)	Sumter	325 W. Hampton Ave. Sumter
	Cunningham, J. W. (Arch)	Sumter	Sumter
	Cuttino, B. H. (E)	Sumter	109 Blanding St. Sumter

Name and County	County	Residence
Cuttino, D. S. (Arch)		Newman, Ga.
Cuttino, W. H. (E)	Greenville	R. 5, Greenville
Daniel, T. W. (E)	Spartanburg	263 S. Liberty St. Spartanbugr
Dargan, W. C. (Gen. Sci.)	Darlington	R, 3, Darlington
Davidson, L. S. (E)	Kershaw	Camden
Davis, B. W. (E)	Greenville	611 Perry Ave. Greenville
Davis, M. (A)	Clarendon	Summerton
Davis, R. R. (E)		Toccoa, Ga.
Dick, G. W. (E)	Sumter	Broad St. Sumter
Dorsett, F. N. (E)	York	York
Dozier, P. J. (E)	York	Rock Hill
Drake, J. F. (E)	Spartanburg	203 S. Converse St. Spartanburg
Drake, H. B. (E)	Anderson	Pelzer
Drake, T. F. (A)	Anderson	R. 7, Anderson
Dunlap, G. H. (E)	York	R. 1, Smiths Turnout
Dunn, S. B. (E)	Marion	R. 3, Mullins
s Durst, W. P. (E)	Greenwood	Greenwood
Eadie M. D. (E)		Brunswick, Ga.
Early, E. B. (A)	Orangeburg	R. 2, Orangeburg
Edgerton, E. W. (E)	Aiken	Aiken
Ellis, E. S. (A)	Greenwood	Greenwood
Eskew, H. L. (E)	Greenville	401 Lloyd St. Greenville
Evans, J. C. (E)	Chesterfield	Cheraw
Farmer, R. E. (E)	Florence	Florence
Farrar, M. B. (E)		Augusta, Ga.
Fennell, C. S. (E)	Hampton	Hampton
s Fennell, H. A. (E)	Allendale	R. 1, Allendale
Fennell, J. R. (E)	York	R. 4, Rock Hill
Ferguson, T. F. (A)	Abbeville	Abbeville
Fishburne, J. G. (A)	Colleton	Walterboro
Fletcher, J. L. (E)	Marlboro	Bennettsville
Fogle, J. L. (A)	Bamberg	Denmark
Ford, J. G. (A)	Dillon	Lake View
Ford, P. T. (A)	Dillon	Lake View
Fowler, B. R. (A)	Greenville	R. 4, Greenville
Foxworth, H. (E)	Sumter	Mayesville
Free, J. A. (E)	Lee	Bishopville
Frey, W. H. (E)	Spartanburg	R. 1, Fairforest
Gaines, E. H. (Chem.)	Cherokee	Gaffney
Galloway, J. D. (E)	Lee	Bishopville
Galloway, W. C. (E)	Greenville	511 Hampton Ave. Greenville
Gantt, J. H. (E)	Pickens	Pickens
Garrison, H. P. (A)	York	R. 4, Fort Mill
Garrison, J. C. (E)	Pickens	Easley
Garvin, J. P. (E)		Atlanta, Ga.
Gaston, L. D. (E)	Spartanburg	Reidville
Gault, H. S. (E)	Spartanburg	Glendale
• Geddings, E. N. (A)	Sumter	R. 2, Sumter
Gillespie, D. D. (E)	Oconee	R. 4, Seneca
Ginn, R. J. (Chem.)	Anderson	125 Webb St. Anderson
Glaze, C. H. (E)	Richland	1815 Pendleton St. Columbia
Glenn, W. L. (E)	Anderson	R. F. D. Anderson
s Godfrey, A. B. (A)	Cherokee	R. 9, Gaffney
Graves, G. S. (E)	Spartanburg	309 S. Converse St. Spartanburg
Green, C. D. (E)	Spartanburg	546 S. Church St. Spartanburg

Name and County	County	Residence
Griffin, E. L. (E)	Anderson	Belton
Guy, J. H. (E)	Richland	Drawer 189 Columbia
Hafers, E. P. (E)	Aiken	Aiken
Hair, J. C. (Chem.)	Barnwell	Blackwell
Hane, A. W. (A)	Calhoun	St. Matthews
Hane, H. T. (E)	Calhoun	R. 2, Fort Motte
Hanna, J. L. (A)	Spartanburg	Woodruff
Harkey, R. A. (E)		Charlotte, N. C.
Harmon, T. A. (E)	Spartanburg	183 S. Converse St. Spartanburg
Harrell, J. C. (A)	Marion	Marion
s Harrington, R. C. (E)	Williamsburg	R. 2, Greelyville
Harris, S. P. (A)	Anderson	Belton
Harrison, W. S. (E)	Spartanburg	R. 1, Moore
Hart, G. W. (Arch)		Charlotte, N. C.
Hart, L. W. (E)	Orangeburg	R. 2, Vance
Harvey, B. C. (E)	Cherokee	Gaffney
Hatchell, R. E. (A)	Florence	R. 2, Effingham
Heller, J. N. (E)	Anderson	Sandy Springs
Henderson, W. N. (E)	Greenwood	Verdery
Herring, W. H. (A)	Marion	R. 1, Marion
Hetrick, J. P. (E)	Oconee	Walhalla
Hewlett, L. M., (A)	Allendale	Appleton
Hicks, J. A. (E)	Darlington	1505 Home Ave. Hartsville
Hicks, J. O. (Arch)		Lexington, N. C.
Higgins, R. C. (E)	Georgetown	1206 Prince St. Georgetown
Hightower, R. E. (E)	Bamberg	Denmark
Hitt, J. C. (E)	Greenwood	Box 485 Greenwood
Holleman, J. L. (E)	Oconee	Seneca
Holmes, R. H. (E)	Barnwell	Barnwell
Hope, G. M. (Chem.)	Bamberg	Denmark
Huckabee, J. C. (E)	Marlboro	Bennettsville
Hudgens, W. W. (E)	Anderson	Williamston
Hudson, G. E. (A)	Spartanburg	266 S. Converse St. Spartanburg
Hughes, W. T. (E)	York	Rock Hill
Hughston, T. L. (E)	Spartanburg	R. 4, Spartanburg
Humphrey, C. J. (E)	Florence	R. 6, Timmonsville
Hunter, H. M. (E)	Greenville	703 W. Washington Greenville
Husbands, H. (E)	Florence	Florence
Hutchins, G. S. (Irreg.)	Spartanburg	131 Oakland Ave. Spartanburg
Hutchins, W. C. (E)	Spartanburg	131 Oakland Ave. Spartanburg
Jackson, L. S. (E)	Orangeburg	17 Fairy Orangeburg
James, W. C. (A)	Greenville	R. 5, Greer
Jameson, P. H. (Gen. Sci.)	Anderson	R. 1, Liberty
Jeter, E. C. (Gen. Sci.)	Fairfield	Wallaceville
Johnson, J. B. (E)	Spartanburg	Arcadia
Johnson, H. (E)	Anderson	712 E. Whitner St. Anderson
Johnson, J. C. (E)	Marion	Marion
Jones, A. S. (E)	Oconee	Walhalla
Jones, J. A. (E)	Florence	Florence
Jones, J. G. (A)	Spartanburg	Crescent
s Jones, M. A. (E)	Richland	1112 Price Ave. Columbia
Jones, M. H. (E)	Florence	Florence
Jones, S. E. (A)	Greenville	R. 4, Greer
Jordon, J. A. (A)	Chester	R. 3, Richburg
Jowers, H. C. (E)	Chesterfield	Angelus

Name and County	County	Residence
Kay, C. W. (A)	Anderson	R. 4, Belton
Kay, R. W. (E)	Anderson	R. 2, Honea Path
Kay, W. H. (E)	Anderson	Honea Path
Keitt, D. H. (A)	Orangeburg	Green St. Orangeburg
Kelly, W. G. (E)	Anderson	Pelzer
Killingsworth, H. N. (E)	Barnwell	Barnwell
King, J. L. (A)	Anderson	R. 1, Belton
Kirk, J. A. (E)	York	Rock Hill
Kirsch, W. A. (E)	Bamberg	Bamberg
Kitchen, L. A. (E)	Richland	1520 Pickens St., Columbia
Klugh, G. F. (A)		Atlanta, Ga.
Knobeloch, L. G. (Gen. Sci.)	Charleston	92 Bull St. Charleston
Koon, O. R. (A)	Richland	Peak
Lavender, D. R. (E)	Cherokee	Gaffney
Lesesne, F. F. (A)	Williamsburg	R. 1, Greelyville
Levin, J. D. (Arch.)	Beaufort	Beaufort
s Link, A. C. (A)	York	Fort Mill
Lipscomb, R. W. (A)	Cherokee	R. 5, Gaffney
Littlejohn, J. E. (E)	Union	Jonesville
McCalla, J. W. (E)		Heardmont, Ga
McCall, H. G. (A)	Marlboro	McColl
McCants, A. W. ( )	Berkely	Monck's Corner
McConnell, R. C. (A)	Anderson	R. 2, Anderson
McCutchen, G. H. (A)	Lee	R 2, Bishopville
McDaniel, C. D. (E)	Beaufort	Beaufort
McDowell, H. E. (E)	York	Rock Hill
McGill, T. J. (E)	Richland	College Place Columbia
McGlone, T. F. (E)	Spartanburg	298 East Main St. Spartanburg
McGowan, J. F. (E)	Florence	Florence
s McGowan, R. W. (E)	Florence	Florence
McLanahan, J. P. (Arch)		Elberton, Ga
McLeod, J. B. (E)	Darlington	Hartsville
McMeekin, R. P. (E)	Fairfield	Jenkinsville
McPhail, J. W. (A)	Anderson	White St. Anderson
McPhail, S. (A)	Anderson	Townville
Macfie, W. H. (E)	Fairfield	Winnsboro
Madden, W. L. (A)	Newberry	R 1, Mountville
Mahan, R. A. (E)		Rydal, Ga.
Major, J. M. (Gen. Sci.)	Newberry	Whitmire
Major, S. M. (A)	Anderson	R. 2, Belton
Maner, W. F. (A)	Allendale	Allendale
Manning, F. C. (E)	Marlboro	Clio
Marchbanks, J. C. (A)	Anderson	404 Boulevard Anderson
Martin, L. K. (A)	Greenwood	R. 2, Ninety-Six
Martin, W. E. (A)	Anderson	R. 1, Anderson
Martin, W. N. (E)	Greenville	W. Washington St. Greenville
Marvin, H. W. (E)	Lexington	Batesburg
Mason, F. W. (A)	Oconee	R. 3, Westminister
Mason, W. B. (A)	Anderson	Belton
Maxwell, J. A. (E)	Spartanburg	R. 4, Spartanburg
Meacham, T. B. (Gen. Sci.)	Greenwood	Greenwood
Mealing, J. P. (E)		Augusta, Ga.
Melette, E. L. (A)	Clarendon	R. 3, Summerton
Mercer, C. W. (E)	Georgetown	Georgetown

Name and County	County	Residence
Middleton, J. E. (E)	Chesterfield	McBee
Midkiff, R. B. (E)		Alexandria, Va.
Miller, P. L. (E)		Hickory, N. C.
Miller, T. C. (A)	York	R. 6, York
Mims, J. Z. (E)	Spartanburg	120 Golding St. Spartanburg
Mitchell, T. J. (Chem.)		Albany, Ga.
Montgomery, J. R. (E)	Kershaw	Camden
Moore, A. R. (A)	Sumter	Wedgefield
Moore, B. R. (A)	Sumter	Wedgefield
Moore, J. N. (A)	Anderson	Belton
Moore, J. T. (Arch)	Spartanburg	Inman
Moore, L B. (E)		Albany, Ga.
Morgan, B. W. (A)	Spartanburg	R. 1, Wellford
Morgan, T. C. (Chem.)	Aiken	Aiken
Mundy, J. T. (E)	Richland	1811 Bull St. Columbia
Murrah, E. S. (E)	Union	Union
Norton, E. L. (A)		Gibson, N. C.
Norton, W. L. (A)	Oconee	Walhalla
Oliver, E. (A)	Williamsburg	Greeleyville
Owens, S. G. (E)	Greenwood	South Greenwood
Padgett, L. C. (E)	Colleton	Green Pond
Parker, G. F. (E)	Florence	Ebenezer
Parker, J. W. (E)	Marlboro	McCoil
Pankhurst, E. W. (E)		Bristol, Conn.
Partridge, J. F. (E)	Pickens	Pickens
Patrick, C. H. (Chem.)	Hampton	Varnville
Perritt, J. E. (E)	Darlington	Lamar
Perry, C. F. (E)	Greenville	309 Mills Ave. Greenville
Philpot, C. P. (E)	Laurens	Laurens
Pickens, M. W. (E)		Albermarle, N. C.
Pickens, R. O. (E)	Spartanburg	259 So. Church St. Spartanburg
Plyler, D. D. (E)	Lancaster	R. 6, Lancaster
Porter, J. C. (E)	York	Rock Hill
Potts, P. J. (A)	Lancaster	R. 3, Fort Mill
Powell, E. M. (E)	Richland	1630 Maple St. Columbia
s Pressley, W. H. (A)	Greenwood	R. F. D. Verdery
Pruitt, W. R. (E)	Anderson	Anderson
Pursley, L. H. (A)	York	R. 1, York
s Purvis, E. R. (A)	Florence	Florence
Ramsey, W. T. (Arch)	Oconee	R. 1, Madison
Reed, B. W. (A)	Orangeburg	R. 1, Orangeburg
Rees, H. F. (E)		St. Petersburg, Fla.
Reeves, T. M. (A)	Colleton	Cottageville
Reinach, M. M. (E)	Greenville	118 W. Earle St. Greenville
Reynolds, P. H. (E)	Lee	R. 3, Bishopville
Rhodes, W. A. (E)	Darligton	R. 1, Darlington
Richardson, E. H. (A)	Clarendon	R. 2, Summerton
s Ridgeway, E. J. (A)	Clarendon	Manning
Robinson, J. H. (E)	Greenville	1009 East North St. Greenville
Ross, T. . (Arch)	Spartanburg	101 St. Andrews St. Spartanburg
Ross, W. M. (E)	Clarendon	R. 2, Summerton
Rutledge, J. R. (E)	Greenville	120 Westfield St. Greenville
Rykard, R. H. (E)	Greenwood	Greenwood
Sadler, J. K. (E)	Greenville	502 Perry Ave. Greenville

Sanders, H. I. (E)	Greenwood	Ninety-Six
Satterfield, M. (A)	Greenville	R. 2, Simpsonville
Saverance, R. C. (E)	Florence	Timmonsville
Schoolfield, J. A. (Arch)		Chattanooga, Tenn.
Seaborn, W. M. (E)	Oconee	Walhalla
Shelley, L. W. (A)	Marion	R. 4, Marion
Sheppard, B. (Gen. Sci.)	Orangeburg	R. 3, Orangeburg
Sholar, J. O. (E)	Sumter	18 Park Ave Sumter
Shuford, G. A. (E)	Marlboro	McColl
Smith, E. D. (Gen. Sci.)	Lee	Bishopville
Smith, J. B. (Gen. Sci.)	Kershaw	Bethune
Smith, M. G (E)		Atlanta, Ga.
Smith, R. E. (A)	Marion	Centenary
Smith, R. L. (E)	Anderson	Starr
Smith, S. L. (E)	Aiken	Graniteville
Smith, T. L. (A)	Marion	R. 1, Marion
Smtih, T. W. (A)	Saluda	Saluda
Smith, W. C. (E)	Greenville	Greer
Springer, E. F. W. (E)		Schenectady N. Y.
Starllings, W. K. (E)	Spartanburg	232 So. Church St. Spartanburg
Steadman, C. L. (A)	Spartanburg	R. 3, Inman
Steele, E. W. (E)	York	Fort Mill
Stewart T. C. (A)	Greenville	Simpsonville
Stewman, L. (E)	Lancaster	Lancaster
Stokes, T. L. (A)	Florence	R. 5, Timmonsville
Stone, W. G. (E)	Florence	Effingham
Stoppelbein, H. E. (E)	Charleston	11 Carolina St. Charleston
Stribling, R. M. (Chem.)		Waynesboro, Ga.
Stroman, W. F. (E)	Orangeburg	Woodford
s Strom, J. R. (A)	Edgefield	R. 3, Edgefield
Stuckey, D. C. (A)	Lee	R. 3, Bishopville
Stutts, R. T. (E)	Union	Union
Sullivan, M. M. (E)	Anderson	300 W. Franklin St. Anderson
Sweeney, D. F. (Arch)	Greenville	403 Crescent Ave. Greenville
Tate, T. B. (E)	Pickens	Norris
Taylor, H. K. (Chem.)	Laurens	R. 1, Laurens
s Taylor, H. L. (A)	Greenville	R. 4, Greer
Taylor, J. M. (E)	York	Rock Hill
Thomas, G. W. (E)	Lee	Bishopville
Thomason, G. L. (A)	Laurens	R. 4, Gray Court
Thompson, Z. V. (E)		Hendersonville, N. C.
Timmerman, W. P. (A)	Lexington	Batesburg
Tolbert, J. N. (E)	Greenwood	Greenwood
Trogdon, R. B. (E)	Spartanburg	181 N. Converse Spartanburg
Truesdale, E. V. (A)	Kershaw	Kershaw
Truluck, R. N. (E)	Lee	Lynchburg
Turner, J. A. (Chem.)	Bamberg	Denmark
Turner, W. B. (A)	Barnwell	Ellington
Tyler, E. L. (E)		Broxton, Ga.
Ulmer, J. C. (A)	Orangeburg	Elloree
Vaughan, F. E. (A)	Laurens	R. 4, Fountain Inn
Vincent, W. E. (E)	Orangeburg	4 Oakland Place Orangeburg
Wallace, R. W. (A)	Laurens	R. 1, Gray Court
Waller, P. F. W. (E)	Charleston	Myers
Walsh, A. A. (E)	Greenville	17 Folly St. Greenville
Warr, E. L. (E)	Union	Jonesville
Watson, E. C. (E)	Bamberg	Bamberg

Name and County	County	Residence
Watson, S. P. (A)	Spartanburg	R. 2, Enoree
Watson, W. T. (E)	Laurens	Laurens
Watt, L. R. (A)	Clarendon	R. 3, Summerton
Webb, J. A. (A)	Anderson	R.. 5, Anderson
Weeks, W. S. (E)	Aiken	R, 5, Aiken
Whaley, E. W. (E)		Knoxville, Tenn
Whetstone, G. B. (E)	Orangeburg	R. 1, North
Whilden, J. E. (E)	Sumter	117 Church St. Sumter
White, H. A. (Gen. Sci.)	Marion	Centenary
White, J. E. (A)	Lancaster	R. 1, Osceola
White, L. B. (E)	Florence	Timmonsville
White, L. M. (E)	York	Rock Hill
White, R. B. (E)	Darlington	Hartsville
White, W. B. (E)	York	Rock Hill
Wiggins, L. E. (E)	Bamberg	Bamberg
Wilkes, A. R. (A)	Darlington	R. 1, Lamar
Williams, G. P. (A)	Marion	Mullins
Williams, H. L. (A)	Hampton	Brunson
Williams, H. T. (E)	York	R. Bowling Green
Williams, J. S. (E)	Aiken	North Augusta
Williams, M. L. (E)	Lexington	Swansea
Wilson, G. V. (A)	Orangeburg	R. 1, Bowman
Winburn, H. E. (Chem.)	Darlington	R. 4, Hartsville
Wingard, B. F. (A)	Lexington	Lexington
Witherspoon, J. H. (E)	Lee	R. 1, Mayesville
Witt, L. H. (E)	Lexington	Swansea
Wolfe, O. F. (A)	Lancaster	R. 3, Fort Mill
Woodham, J. B. (E)	Lee	R. 5, Bishopville
Woodham, M. H. (E)	Barnwell	Barnwell
Wooten, F. M. (E)	Kershaw	Camden
Wright, J. S. (E)	Spartanburg	R. 1, Switzer
Wright, P. G. (E)	Marlboro	Clio
Wylie, A. P. (E)	York	Rock Hill
Yeager, T. J. (E)	Greenville	Buncombe St. Greenville
Young, D. T. (E)		Anniston, Ala
Youngblood, W. L. (E)	York	Sharon
Zobel, T. C. (E)	Richland	1215 Blanding St. Columbia

PRE-MEDICAL COURSE

Allison, H. (1)	Greenville	Greenville
Benson, N. O. (1)		Albany, Ga.
Berry, L. E. (1)	Spartanburg	R. 1, Moore
Carter, H. M. (1)	Colleton	Smoaks
Carpenter, J. D. (2)	Aiken	Aiken
Hartzog, H. G. (1)	Greenwood	Greenwood
Herlong, J. R. (1)	Saluda	Ward
Hodge, J. H. (1)	Florence	R. 6, Timmonsville
Holman, F. W. (1)	Florence	Florence
Horn, R. A. (2)		Tallassee, Ala.
James, F. G. (1)	Greenville	Greer
Kelly, G. M. (1)	Florence	Olanta
Martin, S. P. (1)	Anderson	R. 1, Pendleton
Massebeau, W. A. (2)	Chester	Chester
Norris, J. G. (1)	Greenville	Piedmont

Name and County	County	Residence
Poole, P. O. (2)	Cherokee	Gaffney
Ragin, J. J. (2)	York	R. 4, Rock Hill
Rubinowitz, B. (2)	Beaufort	Beaufort
Schaefer, W. B. (1)		Toccoa, Ga.
Watkins, A. W. (2)	Newberry	Chappelis
Welborn, M. A. (1)	Anderson	R. 1, Pendleton
Wyman, E. H. (1)	Aiken	Aiken

TWO-YEAR TEXTILE COURSE

Cannon, A. E. (2)	Spartanburg	R. 1, Clifton
Etters, C. W. (1)	Chester	Chester
Etters, F. C. (1)	Chester	Chester
Hamrick, S. W. (2)	Richland	Columbia
Lipscombe, V. J. (2)	Kershaw	Camden
Moore, J. L. (1)		LaGrange, Ga.
Mott, W. K. (1)		Yazoo City, Miss.
Robinson, H. B. (1)		LaGrange, Ga.
Ross, W. A. (1)	Greenville	Pelzer
Simmons, G. G. (1)	Greenville	12 Smyth Ave., Greenville
Smoot, J. T. (2)	Marlboro	McCo.
Stastney, R. L. (2)	Anderson	Anderson
Teal, A. O. (2)	Oconee	Westminster
Tilson, J. I. (2)	Greenville	R. 4, Greer
Tuttle, R. H. (1)	Florence	Florence
Westmoreland, J. W. (1)	Greenwood	Greenwood

IRREGULAR COURSES

Brockman, E. W. (A)	Richland	Columbia
Fayssoux, F. S. (T)	Greenville	Greenville
Finklea, J. O. (EE)	Florence	Florence
Griffin, R. L. (Chem)	Anderson	Anderson
Koon, H. E. (A)	Richland	Peak
Lake, J. C. (Tex.)		Wake Forest N. C.
Mobley, F. B. (A)	Lancaster	Heath Springs
Rhodes, S. B. (A)	Greenwood	Gaines
Smith, S. T. (A)	Horry	Conway
Williamson, J. H. (A)	Greenwood	Ninety Six

TWO-YEAR AGICULTURAL COURSE

Barrington, W. L. (2)	Marlboro	Route 2, Gibson, N. C.
Bosler, A. H. (1)	Abbeville	Route 1, Calhoun Falls
Boyd, D. H. (1)	Laurens	Mountville
Burdett, J. M. (1)	Greenville	Route 4, Pelzer
Burns, J. F. (2)	York	Route 1, York
Burris, J. L. (1)	Anderson	Route 8, Anderson
Chamblee, A. (1)	Anderson	Route 4, Anderson
Croxton, R. D.	Kershaw	Route 1, Kershaw
Dalrymple, C. L. (2)	Anderson	Route 1, Pendleton
Davis, L. B. (2)	Abbeville	Due West
Diaz, O. (2)		Tempoal, Mexico
Douglas, V. C. (1)	Richland	Route 1, Columbia

Name and County	County	Residence
DuBose, J. M. (1)	Darlington	Hartsville
Earle, J. W. (1)	Greenwood	Route 2, Greenwood
Embler, J. E. (1)	Anderson	Route 2, Townville
Elrod, W. S. (1)	Anderson	Route 2, Anderson
Gaddy, N. V. (1)	Dillon	Dillon
Gibson, E. W. (1)	Chester	Route 1, Richburg
Grant, W. H. (2)	Chester	Chester
Gray, G. S. (2)	Spartanburg	Woodruff
Grimball, A. H. (1)	Charleston	Route 1, Charleston
Gunter, O. C. (2)	Aiken	Route 3 Wagener
Hamilton, T. D. (2)	Laurens	Laurens
Harling, J. N. (1)	Richland	Columbia
Harvey, G. C. (2)	Oconee	Route 4, Westminster
Hicks, J. R. (1)	Darlington	Hartsville
Hoyle, C. (2)	Cherokee	Route 1, Blacksville
Keasler, J. S. (2)	Anderson	Pendleton
Knight, W. E. (1)	Chesterfield	Pageland
Latham, C. G. (2)	York	Route 4, York
Leitner, J. A. (1)	Richland	Route 1, Irmo
Littlejohn, H. (1)	Anderson	Route 1, Belton
Lomas, H. (2)	Richland	Route 3, Columbia
Lott, G. B. (1)	Barnwell	Williston
McFadden, J. L. (2)	Williasmburg	Cades
McLaughlin, R. D. (2)	Florence	Route 1, Effingham
Mason, R. S. (2)	Hampton	Estill
Messervy, T. C. (2)	Charleston	Meggett
Mishoe, F. (1)	Williamsburg	Greeleyville
Moore, S. F. (2)	Sumter	Dalzell
Moseley, J. H. (1)	Williamsburg	Salters Depot
Napier, C. D. (1)	Marlboro	Blenheim
Newton, R. (2)	Marlboro	Route 2, Gibson, N. C.
Padget, H. W. (1)	Saluda	Route 2, Ward
Padgett, J. M. (2)	Colleton	Jacksonboro
Patterson, L. H. (1)	York	Route 7, Rock Hill
Porcher, P. G. (1)	Charleston	Mount Pleasant
Ratcliff, B. H. (1)	Lee	Route 1, Lucknow
Rogers, V. M. (2)	Marion	Route 2, Mullins
Shaw, R. J. (1)	Lee	Route 3, Elliott
Sheppard, W. E. (1)	McCormick	Route 2, McCormick
Smith, A. J. (2)	Kershaw	Bethune
Spears, H. (1)	Marlboro	Tatum
Starnes, M. A. (2)	Cherokee	Route 1, Blacksburg
Stevenson, R. C. (1)	Fairfield	Winnsboro
Tatum, B. M. (1)	Marlboro	McColl
Thomas, L. C. (1)	Williasmburg	Cades
Turner C. M. (2)	Barnwell	Route 2, Ellington
Tuten, W. A. (1)	Colleton	Jacksonboro
Welborn, H. D. (2)	Anderson	Rout 2, Pendleton
Wooten, R. B. (2)	Chester	Route 1, Lewis Turnout
Workman, C. R. (1)	Laurens	Goldville

ENROLLMENT SUMMARIES

Regular Session 1924-1925

By Counties in South Carolina

Abbeville	9	Greenwood	29
Allendale	10	Hampton	9
Aiken	28	Horry	6
Anderson	115	Jasper	2
Bamberg	21	Kershaw	19
Barnwell	11	Lancaster	16
Beaufort	8	Laurens	30
Berkeley	3	Lee	14
Calhoun	9	Lexington	17
Charleston	21	Marion	16
Cherokee	24	Malboro	32
Chester	25	McCormick	8
Chesterfield	12	Newberry	16
Clarendon	11	Oconee	46
Colleton	15	Orangeburg	49
Darlington	28	Pickens	27
Dillon	10	Richland	42
Dorchester	5	Saluda	10
Edgefield	6	Spartanburg	61
Fairfield	14	Sumter	39
Florence	40	Union	16
Georgetown	6	Williamsburg	14
Greenville	73	York	47
		Total for South Carolina	1068

By States and Foreign Countries

Alabama	4	New Jersey	1
Arkansas	1	New York	1
Connecticut	1	North Carolina	24
Florida	4	Oklahoma	1
Georgia	37	Pensylvania	1
Indiana	1	South Carolina	1068
Jamaica	1	Tennessee	3
Louisiana	1	Texas	1
Mexico	1	Virginia	2
Mississippi	1	West Virginia	1
		Total	1155

SUMMARY OF THE SUMMER SESSION 1924

Teachers' Courses	313
College Make Up Courses	53
Entrance Courses	19
Cotton Grading	7
U. S. V. B. Students	17
Club Boys' Courses	75
Total	484

Summary by Classes and Courses for the Regular Session.

CLASS	Agriculture	Eng'ing Unclassified	Electrical Eng'ing.	Mech. Engineering	Civil Engineering	**Textile Eng'ing.**	Chemistry	Chem. Engineering	Architecture	Industrial Education	General Science	Pre-Medical	TOTALS.
Senior	58		39	16	24	11	4	3	7	25	1		188
Junior	57	65			16	19	5	5	8	12	1		188
Sophomore	96	78			41	23	3		15		12		268
Freshman	121	239					12		19		10		401
Pre-medical												22	22
Special and Irregular	6		1			2	1						10
Two-Year Agriculture	62												62
Two-Year Textile						16							16
TOTALS	400	382	40	16	81	71	25	8	49	37	24	22	1155

General Summary of Enrollment for 1924-1925.

Regular College Session	1155
Summer Session	484
Total Enrollment	1639
Less individuals enrolled in both Regular and Summer Sessions	53
Total individuals in attendance	1586

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